



How can I change the access profiles of our employees in Hong Kong?

Is the access to this building secure?

With innovative technology, SIPORT ensures global access control and time & attendance processes.

Answers for infrastructure.

**SIEMENS**



## Globalization just became easier thanks to SIPORT

Security is one of mankind's basic needs. Whether it's protecting our lives, our assets, our business or our know how. New sources of danger and potential risk call for new security solutions. Consequently, security measures these days are moving away from personal protection and mechanical barriers to global, all-inclusive electronic solutions. Our answer to these risks and dangers is SIPORT™.

SIPORT is a comprehensive, modular and reliable system for access control and time management. It provides a simple solution for allowing authorized persons such as employees and visitors to move through a building or building complex with ease while keeping unauthorized persons out.

SIPORT is exceptionally well equipped for globalization due to its scalability and networkability. It is a robust and flexible security solution that can be adapted for various market needs, such as office blocks, banks, insurance companies, hospitals, refineries and airports. SIPORT is a modular and scalable system that can easily be customized to manage a small factory's ground or a large building complex. It is equally effective for indoor or outdoor environments to control access to selected areas or a complete complex.

# Main benefits: reliable and flexible access control

## ■ Globally networkable

SIPORT can be used to solve access control issues in a company either locally for a single branch or for numerous networked branches around the globe, across continents and time zones, leveraging existing network infrastructures.

## ■ Open and extendable

SIPORT fits efficiently in a company's process organization. The access control solution can be smoothly integrated in the existing computing environment and can be extended (e.g. to include time processing, ID creation, visitor management and much more) to accommodate increasing customer requirements thanks to an open system architecture.

## ■ Extensive integration options

Using advanced management systems, all important alarm messages from SIPORT can be consolidated into a unified user interface. This allows for improved operability, better operator overview and faster responses to events. Possible solutions include Danger Management System (DMS) such as MM8000, GMA Manager or a Building Management System (BMS) like DESIGO™ from Siemens.

## ■ Reliable and secure

All customer data relevant to access is saved multiple times in different locations on the door control unit or reader. If the PC or network fails, then the local door control units or readers provide smooth access control.

SIPORT supports the use of a globally valid company card, which can be used for PC login. In addition to this, data is transmitted in encoded form at all levels: between ID readers, door controllers, operating stations and servers. This serves to increase the level of security in the company as well.

## ■ Modular and scalable

SIPORT can be extended to accommodate increasing customer requirements with regards to size and functionality. The number of ID cards (1,000,000) and door control units or ID readers (up to 8,192 per server) can be extended without extra effort.

## ■ Save costs and protect investments

SIPORT allows for migration of existing systems. Existing hardware can be updated with system software upgrades and expanded to include new hardware components (reverse compatibility). This protects customer investments.

Data is managed centrally with SIPORT. Therefore, the coordination and expenses for administration and backup as well as selection of suitable hardware are managed centrally and not scattered across several locations.

## ■ Increased ease of use

SIPORT is also global with reference to operation. Various users can log in to the same workstation using their preferred languages (multilingual login, e.g. German, English, French and other languages on demand) and therefore work effectively. Alarm messages can be issued in two languages (e.g. English and Arabic or German and Chinese).

## ■ Working together with Siemens: a full partnership for comprehensive solutions

At Siemens we work in close collaboration with our customers from day one. A project consists of planning, configuration, installation and commissioning, each step validated by our customer. Siemens also offers user trainings, equipment maintenance, financing options and user support depending on individual customer and project requirements. Siemens is a competent and reliable partner with a global presence.

## Highlights

- Migrates from existing access control systems
- Integrates into existing IT systems
- Integrates video surveillance, intrusion and alarm systems
- Can be scaled to both present and future requirements
- Can be configured to individual needs, organizational structures and work processes
- Flexible time management system with an interface to reliable wage and salary programs
- Gives direct connectivity to the company's future

Siemens is a reliable partner from planning and project management to training and maintenance.



# Core features: intuitive, user-friendly operation

All software modules of the SIPORT line have harmonized, intuitive and user-friendly interfaces for efficient operation.

## ■ Secure user management

Access to system functions and databases is password protected. The user management system of SIPORT access control / time recording assigns users individual authorizations for operation, functions and information.

## ■ Flexible user login

With several user login options SIPORT offers a flexible and secure approach to accessing PCs or other networked systems, for example, SIPORT's own login, Windows login – following Windows login policies, PKI login, login with LDAP support (personal data is stored in a LDAP database).

## ■ Efficient master data management

Changing access rights – a matter of seconds: the convenience of the interface contributes to an increased security. A couple of mouse clicks or keyboard commands is all that's needed to take photographs, issue ID cards, change access authorization, manage and block cards, open and lock doors, access timetables or print alarm reports.

## ■ Simple and clear management of access profile

The access profile is a combination of permitted times and locations, which defines the entire access authorization

for a person or group. Schedules (times) and areas (locations) groupings help creating profiles easily and insure a good overview. Management of the access profiles can become cluttered as the number of IDs, ID readers, times and room zones increases. SIPORT profile management can help. It allows for simple and convenient creation and allocation of access authorizations. All existing profiles can be searched, listed and changed according to various different criteria. Various filters simplify the overview to determine which people have access where and when.

Integration of electronic locks/mechanronic cylinders in profile management significantly simplifies configuration of the components as well as the definition of times, room zones and access authorizations.

## ■ Simple definition of exception days

In addition to the normal week days, regional or local holidays can be defined as "exception days" and stored in the calendar. The specific access rules defined for these days are automatically activated on each of the days.

## ■ Traceability of events and alarms

SIPORT precisely logs all events and alarms in various logbooks (e.g. authorized and denied accesses, attendance times, sabotage alarms, etc.). This data can be easily displayed, sorted, selected, printed in list form or exported in various formats for further processing.

## ■ Multiple tenant functionality

Large buildings often house several companies under one roof. In such cases, access control needs to satisfy a wide range of demands. Access to company-specific parts must be managed on an individual basis while other rooms and areas intended for general use must be available to everyone. Thanks to its multi-tenant ability, SIPORT offers a virtually unlimited range of configurations. The same applies to rapidly growing companies. A system suitable for a single floor today can be extended to a whole building tomorrow, or to numerous locations worldwide.

Each tenant in a single building can use the same shared system due to the multi-tenant capability of SIPORT. Each tenant manages their own data and receives the messages (e.g. alarms) that are allocated to them. The other tenants can not view this data.

## ■ Routine capability

SIPORT is the system for complex solutions. Its freely programmable software routines at controller (locally on controller level operational) and/or server level (server-wide operational) allows customization that can otherwise only be achieved with memory-programmable controls. Complicated processes can be programmed into SIPORT to support operational workflows.

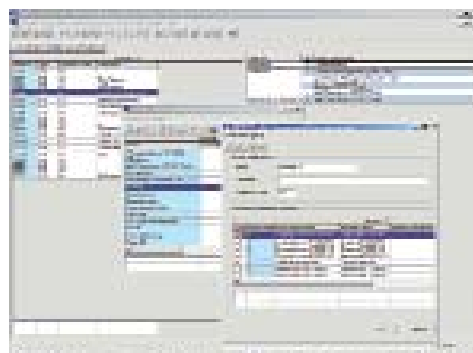
## ■ Server flexibility

SIPORT can be used in connection with Cluster-Server, Terminal-Server and False-Tolerance-Server.

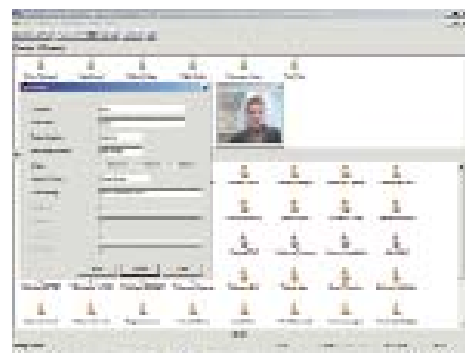
Master data management – simple and efficient



Profile management – clear and convenient



SIPORT Display – overview of presences and absences



# Software extensions: versatile and customer-oriented

The core SIPORT software can be extended with a wide range of additional modules.

## ■ ID creation (SIPORT VAS)

SIPORT has an integrated ID card creation system for taking and storing staff portraits, managing personal data and printing ISO ID cards. It enables production of forgery-proof IDs and comprises design, management and personalization of the IDs. Special card printers encode and print magnetic strips, proximity and barcode in a single work step.

In addition to clear access authorization and precise work time recording, the IDs are also suitable for cashless payment in the staff canteen.

## ■ ID personalization (SIPORT VAS CMM)

SIPORT VAS can be extended using the SIPORT card management Mifare® for card chip personalization.

- Personalization of Mifare chips in ID cards via the read/write module in card printers or via an external Mifare read/write module
- Mifare key management for several keys and definable key sets
- Mifare sector block management

## ■ WEB visitor administration (SIPORT Web Visit)

SIPORT Web Visit, the Web-based visitor administration and visitor pre-registration allows pre-registration of visitors from any office PC over Internet.

## ■ Cardholder data administration over the Internet (SIPORT Web Cardholder)

SIPORT Web Cardholder is a Web-based cardholder administration tool.

## ■ Site visualization (SIPORT Graphic)

SIPORT Graphic can display graphical representation of alarm situations, door and contact statuses or malfunctions in real time. When there is an event, the site plan opens automatically and a color change visualizes the current situation. Certain functions such as opening, locking or blocking of doors can be manually triggered via the graphic. Furthermore, video surveillance cameras can be controlled and the video images displayed.

## ■ Presence screen (SIPORT Display)

The SIPORT Display panel shows who is present or absent and the current location of individuals at a glance. SIPORT Display is therefore not only an ideal instrument for receptions, switchboards and security services, but also serves as a general information system.

## ■ Visitor management (SIPORT Visit)

SIPORT Visit is an ideal tool for the gatekeeper or receptionist for recording visitor data through to issuing visitor IDs. This software extension supports additional functions such as visitor label printing or picture taking and management for example.

## ■ Web management (SIPORT WebDoor)

SIPORT WebDoor enables Web-based control and monitoring of doors with and without ID readers as well as displaying

status information, various control functions and time planners. Preferences and various different filter functions provide a high level of operating convenience.

## ■ Host connection

SIPORT Host Interface connects the SIPORT system to a parent system such as SAP R/3 or for master data import from any database via an ODBC interface. This can be used to maintain and exchange personal data from the parent system. Attendance data can be transferred to the parent system for further processing.

## ■ Compliance with 21 CFR Part 11 regulations – suitable for pharmaceutical solutions

Based on an audit by an independent validation specialist and customers in the pharmaceuticals industry, SIPORT R1 meets the requirements of 21 CFR Part 11 and various other international guidelines of Good Manufacturing Practice (GMP), when properly configured and maintained. This allows the consistent traceability of changes as well as the definition and inspection of procedures upon access to relevant building sections.

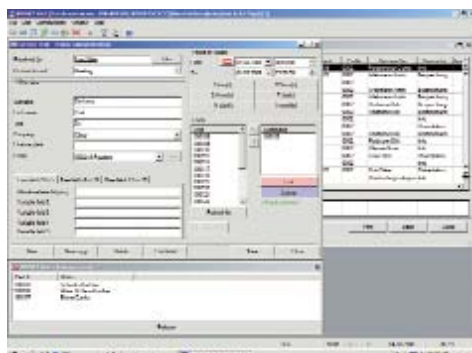
## ■ Interlocking

The interlocking function can lock certain rooms for a time-limited period. The access rights for various rooms or zones (which consists of a number of rooms or production areas), the locking time and locking reason are all stored in the employee's access profile. This can be used in the pharmaceutical industry to prevent cross-contamination for example.

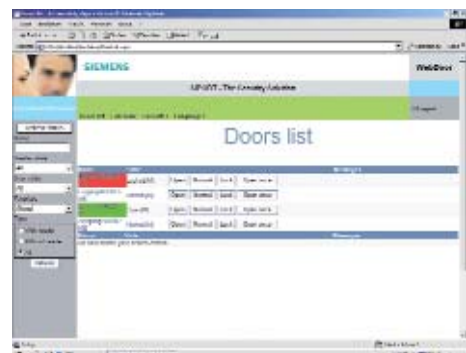
ID creation – creating and personalizing IDs



Visitor management – creation of temporary IDs



WebDoor – effective door control and monitoring



# Time & attendance: modern and efficient attendance processing

SIPORT time management controls and manages flexible work models, consisting of automatic time recording, convenient time account administration and individual evaluation possibilities for various types of flexitime. All time & attendance data can be collated and used for payroll and time recording or time & attendance issues.



## ■ Time recording and processing

The user-friendly system solution allows for entering work times locally and evaluating them centrally. This is regardless of whether the times are monthly work, flexitime, shift work or vacation and sick days. The time schedules can be used for targeted processing, planning, evaluation and transferral to a parent system for payroll.

Recording itself is simplified using special readers, hands-free with the most modern card technologies or mobile via Web terminals.

SIPORT time management can manage up to 50,000 people securely and conveniently.

## ■ Integration between SAP R/3 and SIPORT for mutual data exchange

The SIPORT Host Interface is an SAP certified interface for data exchange between SAP R/3 and SIPORT time management. Therefore, the personal data can be maintained in the SAP system and transferred to SIPORT. On the other hand, all data can be transferred via the interface from SIPORT to SAP R/3 and therefore made available for balance calculation and payroll.

## ■ Easy implementation of customer specific requirements

Programmable tools (time routines) make it possible to realize and calculate customer-specific requirements, such as special break times and or vacation and exception day rules.

## ■ Automated efficient procedures via the workflow module

The workflow module is an efficient portal solution that allows authorized staff to manage their own time recording interface. Applications for vacations, absences and corrections are automatically distributed to the responsible employees via the web according to defined authorization profiles.

## ■ Worldwide access from any location using the web terminal

Employees can use the SIPORT Web client to enter and change their work times in a standard web browser and query their time accounts. This can be carried out without any additional software at any time and from any location.

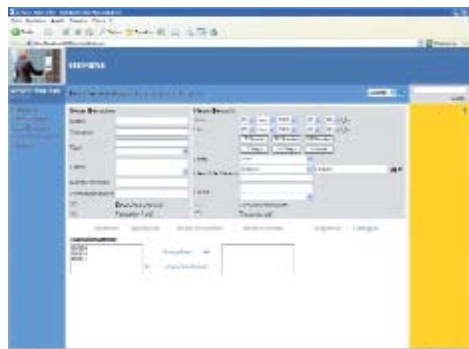
## Highlights

- Local and central time recording and processing for up to 50,000 people
- Integration between SAP R/3 and SIPORT for mutual data exchange
- Programmable tools make it possible to realize and calculate customer specific requirements (e.g. vacation, break times etc.)
- Authorized staff can manage their own time recording through the workflow module
- Web client enables you to access, enter or change their work times from any location, worldwide

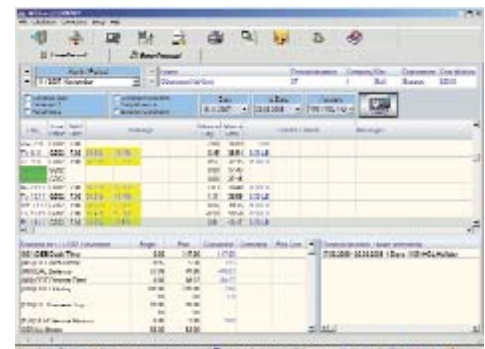
Web Cardholder – the web cardholder administration tool



Web Visit module for visitor administration and pre-registration



Time corrections – balances at a glance



# Further options: seamless integration of SIPORT

To maximize the efficiency of workflows and infrastructures, SIPORT integrates seamlessly with other platforms and sources of information.

■ **Integration with other systems: Danger Management System, Building Management System, etc.**

Exchange of status information, messages and triggering of activities in both directions.

■ **DVR, matrix**

Alarms, recording, allocating images/stream to an alarm and playing the recording directly from a SIPORT log, controlling the allocation of camera to monitor, controlling camera functions e.g. controlling from within SIPORT Graphics module.

■ **Electronic locks and mechatronic cylinders**

Consistent configuration and operation from the access control system with shared authorization management (for both online readers and offline electronic locks or mechatronic cylinders). The upload of login information from offline locks and cylinders into the SIPORT logbooks provides consistent traceability of activities and changes.

■ **Integration of escape and emergency access routes**

SIPORT allows for the connection and control of escape and rescue access route systems, which provides for a higher overall level of building security. It is also possible to link to a SAR (safe and rescue) system.

■ **Automatic license plate recognition**

A license plate can serve as an access ID. Local and foreign license plates can be recognized and procedures can be recorded in the SIPORT logbooks, which means they can be quickly traceable at any time. This can be implemented, for example, for the entry to the parking lot or for visitor vehicle recording.

■ **IP cameras**

Full integration of IP cameras for recording image sequences in cases of alarms or notifications. Recordings can be viewed at any time and via the respective logfile entry. Very simple and user-friendly!

■ **SIPORT SAP Interfaces (HR/PDC – BAPI, KK1)**

Certified, bidirectional connection with an SAP HR system (master and time data). Multi-client and branch capability.

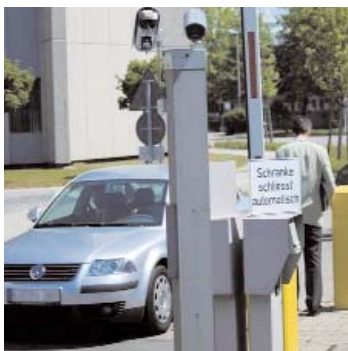
■ **ODBC interface**

Master data interface that is easy to parameterize for all common databases with ODBC support. Can be executed both manually or time-controlled. Default entries in any data fields.

## Highlights

- Integration with other systems (e.g. DMS, BMS etc.)
- SIPORT log can be directly linked to alarms, recording, images etc.
- The upload of login information from offline locks and cylinders into the SIPORT logbooks provides consistent traceability of activities and changes.
- Enhances building security by integrating the escape / emergency routes to SIPORT
- Automatic license plate recognition
- Camera recordings can be viewed at any time and via the respective logfile entry
- Can connect to SIPORT SAP and ODBC interfaces

SIPORT in connection with SiPlate, the car registration plate recognition software



Software development of highest Quality.  
PEP – The SIEMENS Product Evolution Process guarantees quality



# Readers: keep all options open

SIPORT readers are versatile and high performance and the brilliant design is impressive. Various types of readers for flexible implementation in large and small businesses – this is what the SIPORT reader family has to offer.

## ■ Proximity readers

The contactless readers are operated using so-called proximity ID cards, key tags or other kinds of transponders. This means that the encrypted access data is wirelessly transferred from the ID card to the reader.



## ■ Reader with keypad

Increased security is ensured by having the user enter a personal code in addition to carrying the proximity card. The keys are clearly and ergonomically arranged.

## ■ Access readers for intercoms

Card readers can be integrated into intercoms, therefore catering both for regular employees and for occasional visitors using only one infrastructure.

## ■ Recognition of biometric characteristics for a higher security level

SIPORT offers a wide range of options using biometric characteristics for access control. Possibilities include, for instance, fingerprints with the biometrics Prestige reader as well as face, iris or vein recognition.

## ■ Designer switch programs

Where security must be combined with design and architecture, card readers can be integrated into designer switch programs or into glass doors.

## Highlights

- Wide range of readers, including: proximity, keypad and intercoms
- Biometric characteristics for access control to high-security areas
- Innovative product design

The SIPORT reader range



Offline fitting, integrated in SIPORT





# Cards: a single card for multiple uses

## ■ Convenient

### – Proximity card

Doors up to a distance of 5 meters can be opened with the proximity card. The card can remain in the user's pocket and it does not have to be passed through the reader.

### – Individual company logos

The cards can be customized to reflect the corporate identity of any company with logos, holograms and graphic design.



SIPORT card and tag range

## ■ Secure

### – Greater security

Writable IDs also offer the option of dividing the various different applications among several segments or sectors. Therefore, the responsibility and access protection of the individual applications remains separated. Secure data storage in the chip ID is also possible.

All transmissions from card to reader to server are encrypted.

### – Verification

Verification with additional PIN entry or recognition of biometric characteristics (finger, face, iris, veins) helps achieve almost 100 percent security.

### – Card with picture

Photos are an additional identification aid and allow for visual control of persons on site.

## ■ Multifunctional

### – Application

The multifunctionality of the smart card extends from building access and computer access to logging on to software applications as well as cashless canteen and vending machine payment, time & attendance recording, etc.

## – Writable memory chip card

The secure (password-protected) and fast storage of data on the card means that this can be used as data medium (access authorizations, biometric templates, etc.). Information and authorizations are carried with the card and allow full and secure functioning of local applications (e.g. stand-alone locking systems).

## Highlights

- Proximity cards that can activate doors up to a distance of 5 meters and can be customized to reflect the corporate identity
- Greater security with writable ID's, PIN verification and photographs on cards
- The smartcards can be used for multiple functions such as: access, computer access or payment in company canteens.
- The writable memory chip allows information and authorizations to be carried with the card and allow full and secure functioning of local applications.

Offline access cylinder, integrated in SIPORT



# Services: trust is good, service is better

Quality and reliability are the preferences of our world today – both are synonymous with Siemens. Advantage Services™ provides a comprehensive service portfolio for your building's infrastructure covering building automation, fire and security. These services are designed to enhance performance, deliver protection and create real value over the entire life cycle of your facility, thereby allowing you to concentrate on your core business.

If a card reader malfunctions, then it is frustrating, but the local error is quickly remedied. Events that cause software instability, on the other hand, can have serious effects on the whole system. Prevention helps avoid critical system situation. We concentrate on the central software components without neglecting the peripheral components. Over the course of time, the protective functions can be kept intact with software updates at regular intervals and incremental modernization. Ongoing monitoring of the system status provides further options by connecting to an alarm control center or the multi-level organization of system operation.

## ■ Advantage Services for SIPORT

SIPORT offers many advantages such as seamless integration in existing networks, numerous interfaces to applications and third-party systems or unlimited scalability. However, the number of potential risks grows with flexibility. Advantage Services, the service portfolio from Siemens, minimize risks, increase reliability and ensure stable operation.

### – Maintenance

Integrated preventive measures allow for detection of instabilities and weaknesses in time. This includes inspection of database integrity, data backup and testing all system interfaces as well as visual and functional inspection of door controllers, card readers and mechanical components. However, if malfunctions occur, then they can often be diagnosed and remedied using remote maintenance.

### – Life cycle management

The speed at which risks change has a direct impact on the frequency with which updates are provided for system and application stability. System enhancement with the connected increased requirements of resources, upgrades to software versions with extended functionality or system components, which no longer

meet the requirements and therefore hinder the protective function are often cause for upgrading the SIPORT server and targeted modernization of the peripheral elements.

### – Event management

Connection to a security control center can be used to monitor the state of the SIPORT system during the specified periods. Technical system notifications are checked and intervention measures implemented according to a predefined plan, e.g., notification of the person responsible for the system, notification of a malfunction to the Siemens Service Center or, if a third-party system is connected to SIPORT, coordination of troubleshooting.

### – Remote access management

Siemens can manage individual operating functions through to full operation of the SIPORT system. Siemens takes care of the system while the customer focuses on his business: data maintenance, management of access rights, reporting or card logistics such as immediate blocking of lost cards or person-specific assignment of special access rights. These operating services can be performed via remote access without time limitation and tailored to customer-specific requirements.

### – Service level

Two factors are decisive when selecting the service level: the complexity of the SIPORT system for the preventive service intervals and the requirements of response and intervention times in cases of malfunctions. Our offering ranges from freely definable, guaranteed response times within business hours and extended service periods to ongoing service specialist availability around the clock.

## ■ Service organization

One of our strengths is our global presence. In the event of service requirements, we are therefore able to support our customers competently, quickly and in their own languages. In the case of complex SIPORT problems, our customers benefit from the know-how of our globally active service specialists, our local competence centers and the service team's direct access to our own development department.

The Advantage Services portfolio from Siemens



# Whatever the requirements...

As each industry has unique requirements, the flexibility, robustness, and superior expandability of SIPORT ensure that it can be implemented in nearly any environment. The advanced functionality of SIPORT can help different types of organizations overcome real-life challenges in a variety of different ways, such as:

### Pharmaceutical



Excellent environmental conditions are required to achieve sustainable success in the pharmaceutical industry: safety to protect people working with toxic substances, security to safeguard assets and unique knowledge as well as compliance issues to fulfill regulatory demands. As SIPORT complies with the 21 CFR Part 11 regulation, it is ideally suited for pharmaceutical solutions. An integrated security system incorporating SIPORT deters piracy, prevents unauthorized entry and reduces the risk of contamination or product tampering all whilst protecting assets and investments and controlling business processes.

### Airports




As SIPORT is designed to manage very large amounts of access control traffic, it is the perfect choice for airports. It provides a complete access control and security solution with integration to video surveillance systems and other airport infrastructure. The simple-to-use interface ensures that airport security staff can easily and effectively monitor their security systems at all times. With many different parties (shop owners and sales staff, ground personnel, flight crew, cleaning and security staff, etc.) housed under the one roof at airports, it is essential that each person is assigned the correct rights. With SIPORT card management, staff can be assigned with individual rights/times so that they can access several areas with a single card.

### Multi-segment office complexes




SIPORT includes tenancy functionality that enables a number of companies to use the same access control system completely independently of one another. This is particularly useful in environments where residential units, commercial offices and retail outlets are all under a single roof. All levels of the system are capable of handling client groups. Existing installations can be integrated without difficulty, and the use of different card technologies is not a problem. SIPORT can restrict access to certain areas whilst leaving general areas, such as the car park, open to everyone. When integrated with video surveillance, intrusion detection and fire safety systems, it is possible to protect and monitor the whole building from one central point.

### Hospitals



Striking the right balance between security and accessibility is of critical importance in hospital environments. The large traffic flow typically associated with a hospital and the combination of low- and high-security areas make a flexible and user-friendly system like SIPORT the obvious access control choice. Highly sensitive areas require stringent security restrictions – SIPORT offers a wide range of options including the use of biometric characteristics for access control while an OPC interface to our RFID people and asset tracing solution ensure that infant abduction, baby mix-ups, dementia patient wandering out and the loss of assets are avoided.

### Manufacturing operations



Safety is of paramount importance within a manufacturing or industrial facility, like an oil and gas refinery. SIPORT helps address occupational health and safety issues by controlling access, providing anti-pass back features, and carrying out head counts so that it is fast and easy to produce a mustering report and track cardholders during emergency situations. SIPORT Graphic can also provide a graphical overview of alarm situations, door and contact statuses or malfunctions in real time. Certain functions such as opening, locking or blocking doors/gates can be triggered via the graphic, giving access to the rescue services or providing an escape route for personnel. Integrated with video surveillance, intrusion detection and fire safety systems, SIPORT offers security staff with an around-the-clock, effective and wide-area security solution.

### Universities and other campuses



SIPORT is ideal for campuses as it can easily manage access to multiple buildings with differing security requirements, as well as storing and processing large amounts of cardholder data. During particularly busy times like enrolment periods, it has no difficulty assigning access rights, issuing card numbers, and printing large numbers of cards while simultaneously communicating with the university's student database systems.

# ...Siemens can help

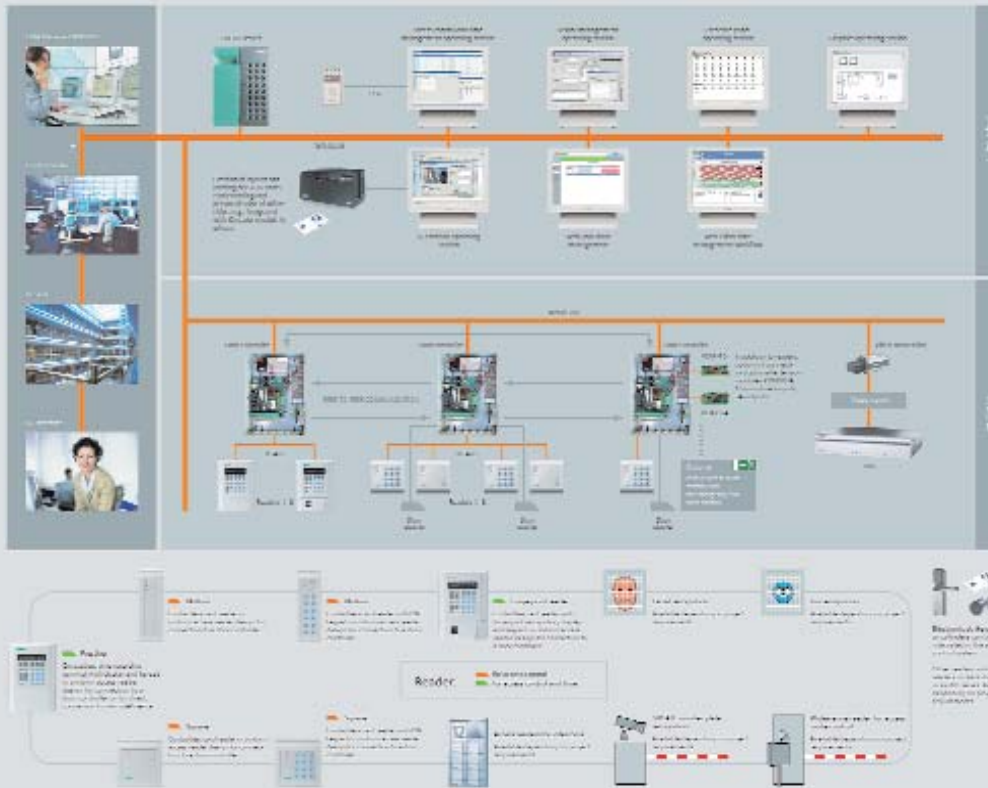
- highly suitable
- suitable

Key features for application use	Global corporations	Finance	Pharmaceutical	Energy, oil and gas	Airports, harbors
<p><b>Global access control solutions for worldwide office locations</b></p> <p>Most internationally active corporations manage the access control on a worldwide basis to avoid weak spots. SIPORT uniquely supports them by offering a robust yet flexible networked solution:</p> <ul style="list-style-type: none"> <li>■ Multi-site and multi-server architecture: one central server interacts with branch servers in each location.</li> <li>■ Master data management can be either centralized (master server receives master data from SAP and distributes it to the branch servers) or decentralized.</li> <li>■ Centralized or decentralized card creation and profile management. Unlimited number of profiles, hierarchies and time-based rights (e.g. for cleaning staff). Up to 1 million users configurable.</li> <li>■ Multi-tenant capability: branches, affiliated companies or subtenants can use the same access control system, at the same time but completely independently of one another.</li> <li>■ Multi-language system (SIPORT can provide various languages for each user).</li> </ul>					
<p><b>One card for all purposes</b></p> <p>The access control card can be used for additional services and function. Such functionalities offered by SIPORT are:</p> <ul style="list-style-type: none"> <li>■ Official ID card with picture and name to identify oneself across the branches reception desks.</li> <li>■ The card can be used to access to sensitive software applications, data or encrypted e-mails, as well as to authenticate oneself and digitally sign electronic documents or trigger processes.</li> <li>■ Cashless payment of canteen or vending machines purchases, with either online booking or prepaid amounts.</li> <li>■ Access (and charging) to parking and elevator control (access to authorized floors only).</li> </ul>					
<p><b>Process automation</b></p> <p>Protecting business continuity is a serious issue and security has become an integral part of any company's processes. SIPORT ensures continuity by:</p> <ul style="list-style-type: none"> <li>■ Strong time &amp; attendance management features ensure the seamless exchange of data between systems, insuring consistency between employment status and access rights, as well as the management of overtime, absences, etc.</li> <li>■ Web-time recording via virtual readers using personal computers at the workplace.</li> <li>■ Online connections to other technologies (video, IT, intrusion, fire detection, emergency exits, building comfort, etc.) allow interdependencies and cross-platform routines (presence-based lighting and climate controls, automatic de/activation of detectors, alarm transfer to pagers, etc.).</li> <li>■ Import/export functions allow for integration of physical security with other systems such as facility management, staff planning, etc.</li> <li>■ The enforcement of physical workflow policies can be ensured.</li> </ul>					
<p><b>High-security requirements</b></p> <ul style="list-style-type: none"> <li>■ The system functions both as real-time online solution and, in the case of server failure, as an offline system, where the SIPORT controllers continue functioning at local level offering full access control functionality until the server (or power supply) returns.</li> <li>■ Encrypted data from the card to the SIPORT host server. Secure data transmission over the entire transmission path.</li> <li>■ High availability of the SIPORT system using a cluster server solution (failsafe server architecture).</li> <li>■ Control of third-party entrances – e.g. turnstiles, man-traps to access security critical areas such as server rooms, cash handling areas, research facilities or security control rooms.</li> <li>■ Biometric verification using fingerprint, facial or vein recognition, as well as iris comparison.</li> <li>■ Video recordings which are able to be directly linked with access control, show exactly who entered the room, at what time and what they did once in the room – all are safely archived for immediate review at any time.</li> </ul>					
<p><b>Special hazards</b></p> <p>Due to specific industry-related hazards, many industries maintain stringent security and safety policies. While an access control can ensure that only the people with the necessary skills and knowledge access these areas, SIPORT can further contribute to higher safety conditions:</p> <ul style="list-style-type: none"> <li>■ Connection to explosion-proof ID readers for highly inflammable environments</li> <li>■ Creation of evacuation lists</li> <li>■ Control of inter-locked doors and air-locks</li> </ul>					

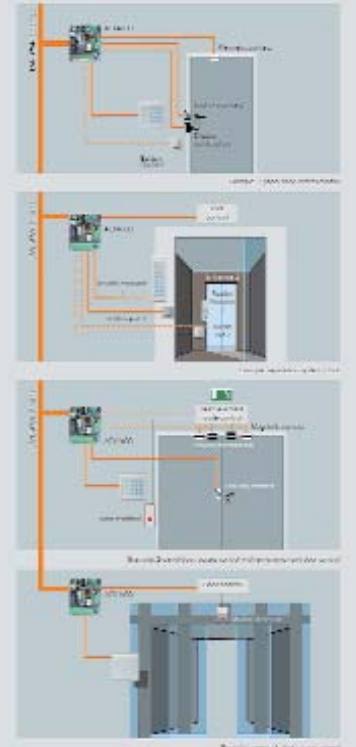
# Planning aid SIPORT – access control and time management



SIPORT network structure – system functionalities and networking examples



Wiring/door variants



SIPORT planning guide. For more information, please go to: [www.siemens.com/siport](http://www.siemens.com/siport) and download the pdf version of the SIPORT planning guide.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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