

Access control

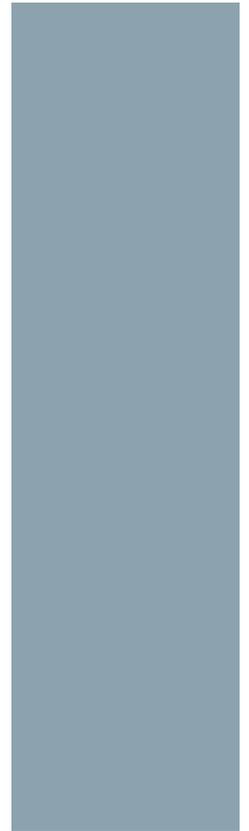
SiPass Entro

Open the door to
comprehensive security



Answers for infrastructure.

SIEMENS



SiPass Entro: A security system you can count on

SiPass Entro is a very scalable, flexible, and user-friendly access control system that can monitor and control access to facilities with anywhere from one to 512 doors and as many as 40,000 cardholders. System configuration is easy and an extensive range of reader and card options is available, including Cotag hands-free technology.

Access rights can be easily customized and managed by categories. The system provides a complete range of reports and can handle a large number of external controls, including elevator control, alarm outputs, machine control and fire alarm inputs. The user-friendly software includes a visual template design tool for designing and printing photo ID cards. Integration with video surveillance and intrusion detection systems is also possible, and there is an open TCP/IP interface to communicate with other systems, such as accounting and time and attendance.



Access control that's as easy as 1-2-3!

■ Easy to install, administer and use

SiPass Entro is a cost-efficient and reliable access control system. Once it is up and running, the system administrator only has to add and delete cards/tags as employees come and go. The system runs on its own without the need for a server or PC, which makes it very low-maintenance and therefore perfect for organizations that don't have dedicated security personnel on site.

SiPass Entro is well suited both for small and medium-sized businesses in sectors such as retail, manufacturing and services, as well as for larger, multi-site companies. It is also a popular choice in office buildings, schools, hospitals and residential complexes. Since the system was launched in 1997, approximately 10,000 systems have been installed, monitoring more than 100,000 doors around the world.

■ Smooth integration with other systems

SiPass Entro interfaces towards almost any intrusion detection system via the use of hard-wired inputs and outputs. When the two systems are connected, SiPass Entro manages the arming and

disarming of the intrusion detection system and stores comprehensive feedback about these activities in its event log.

SiPass Entro provides a unique and very smart video recording capability when used in combination with Siemens' SISTORE digital video recorders. Up to 16 SISTORE DVRs and 128 cameras can be connected to SiPass Entro without the need for an additional PC or a server.

■ Other notable features

SiPass Entro supports Windows Terminal Server (TS) 2003/2008, which enables multi-site card management from a central location. This arrangement is ideal for distributed organizations such as retail chains.

The integrated room reservation function in SiPass Entro works via the Internet and/or one or more InfoPoint terminals. The doors to the bookable facilities or rooms are kept locked and will only unlock when a cardholder with a valid booking presents his or her card.

Highlights

- Cost-efficient and reliable system
- Wide range of compatible readers
- Photo ID card design and printing
- Anti-passback and roll call
- Extensive range of external controls
- Intrusion detection system management
- Integration with SISTORE DVRs
- Easy to integrate with third-party systems





Video recordings are accessible directly from the SiPass Entro software



Video surveillance camera from Siemens

Software and system functions

■ One site or many?

SiPass Entro includes easy-to-use, Windows-based software. Simplicity and clear operation principles virtually eliminate the chance of mistakes, thereby improving security. If an organisation only has one site, it may choose to simply install the SiPass Entro software on a standard PC. Organisations with multiple sites, however, will likely prefer to install the software on Windows Server 2003/2008.

The PC can be connected to the SiPass Entro system via direct cable, LAN, the Internet or a modem, which means that SiPass Entro can fit any infrastructure and even be managed remotely from any location.

The PC connection is required only for adding, modifying or deactivating cards and producing reports. In all other respects SiPass Entro is a fully autonomous system with all the data needed for operation stored in the segment controllers.

SiPass Entro supports various operating authorisations – for example, reception personnel may be authorised only to handle card activation while administrators are authorised to implement basic modifications of the system.

■ Broad range of security features

SiPass Entro can provide anti-passback functionality, which prevents the same card from being used to gain access twice. Anti-passback also enables roll call, which ensures the accuracy of counts of how many, and which, cardholders are in which rooms at a particular point in time – information that can be crucial in an emergency.

The advanced interlocking functionality in SiPass Entro enables you to set up an interlocking zone which will ensure that when one door in the zone is unlocked or open, the other door(s) in that zone remain locked and closed. This functionality is particularly useful in cashier rooms, for example, where all doors to the area should remain locked when the safe is open.

SiPass Entro is invaluable in an emergency such as a fire alarm. The system administrator can specify in advance which doors to unlock when the emergency exit input is activated, rather than simply unlocking all doors and risking the theft of unprotected assets.

■ Alarms and video surveillance

Alarm bypass and alarm control functions are particular advantages of SiPass Entro. It's easy to define alarm zones using the SiPass Entro software. At each reader or door assigned to an alarm zone, the intrusion detection system can be armed or disarmed via the use of dual-purpose readers for both access control and intrusion detection. SiPass Entro's Alarm Status Feedback (ASF) function can indicate the status (armed/disarmed) of the zone at any reader in the zone (via the red reader LED) and adjust the security levels accordingly.

In applications that include SISTORE DVRs, the SiPass Entro software fully integrates the DVRs into the access control system, which makes event-triggered recording very easy. Up to 16 SISTORE DVRs and 128 cameras can be connected to SiPass Entro without the need for an additional PC or a server.

SiPass Entro also includes an open TCP/IP interface to communicate with other systems, such as accounting and time and attendance.



SiPass Entro starter kit



InfoPoint 811

Hardware components

■ Segment controller

The segment controller is the heart of the SiPass Entro system. It processes all the information in the system and stores the complete database. As a result, the system is robust, easy to maintain and able to operate without a connected PC or server, even when SISTORE DVRs are connected to the SiPass Entro system. The integrated Web server and flash memory port provide the basis for additional online functions, such as facility reservation, which can be customised for specific customer requirements. The integrated dual port switch makes network installation a simple matter.

SiPass Entro segment controller units can communicate using a wide variety of methods, such as standard RS-485, TCP/IP networks, modems or WLAN. These communication channels can also be combined as required. Regardless of the physical network used, 128-bit encryption is always applied.

■ Door controllers

The DC12 door controller is used to connect all elements of a door. It supports all standard modes from the basic one entry reader to two readers (one entry and one exit) for an anti-passback system. In addition to Siemens readers, it

is also possible to connect most third-party readers that support Wiegand and Clock&Data standards.

The DC22 door controller has all of the features of the DC12 and also supports alarm status feedback in conjunction with alarm systems. It also has two outputs for electric locks (day/night lock) as well as two relays for implementing alarm controls.

Both door controllers have an integrated status display, which facilitates simple installation and service.

■ InfoPoint reservation terminal

SiPass Entro includes a reservation function that works via the Internet and/or via one or more InfoPoint reservation terminals. An InfoPoint terminal can be mounted at the entrance to a facility or room so that users can view and edit their reservations directly in the terminal. InfoPoint has an integrated function to transfer information to and from the segment controller (which acts as a Web server).

■ Readers, cards and tags

The full range of SiPass Entro readers, cards and tags are available for use. By using a combination of magnetic stripe

and proximity card readers (with or without keypads), it is possible to create a "tailor-made" Entro system to suit the specific security needs of any organisation.

■ External controls

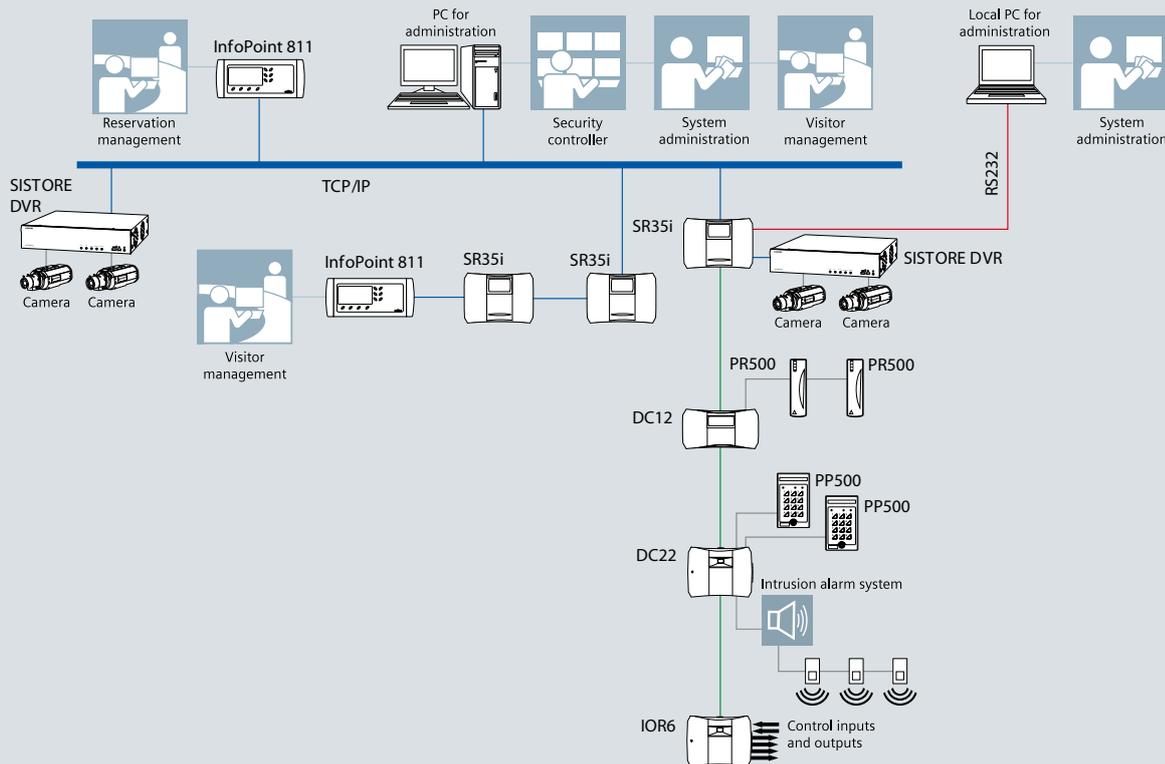
SiPass Entro can handle a large number of external controls via its IOR6 input/output controllers. Typical examples are elevator control, alarm outputs, machine control and fire alarm inputs.

■ SISTORE DVRs

Each segment controller in a SiPass Entro system can be connected to a SISTORE digital video recorder. In total, up to 16 DVRs and 128 cameras can be integrated into a SiPass Entro system. Depending upon the type of DVR chosen, the configuration of the recording rules can be set using the SiPass Entro software. Direct links to video recordings are stored in the SiPass Entro event memory and can be recalled and played at the touch of a button.

■ BAPSI technology

It is easy to integrate SiPass Entro with a number of third-party systems – such as those for accounting or for tracking time and attendance – via BAPSI open interface technology.



SiPass Entro system diagram

SiPass Entro applications

SiPass Entro's flexibility, scalability and user-friendliness have made it the obvious choice for companies in a wide range of business sectors, including industrial manufacturing, services, healthcare and retail, as well as public agencies and residential complexes.

■ Retailers

SiPass Entro provides the ideal solution for both small and large retailers. It is easy to install and use and ensures that only authorized personnel have access to stock and cashier rooms. It is easy to connect video surveillance equipment and intrusion detection systems to create an integrated security system.

■ Manufacturing, distribution and other commercial facilities

Whether large or small, most manufacturers and distributors must manage access to warehouses, halls, garages and other kinds of facilities. They also need fast and easy access to accurate information about

the location of employees in high-risk or critical plant areas in order to respond appropriately in emergencies.

SiPass Entro provides a variety of features that improve security in an industrial environment, including the anti-passback function, time and attendance monitoring (via BAPSI) and hands-free and/or long-range reading technology.

■ Office buildings

More and more, the modern office environment is characterised by shared facilities, mobile work spaces and temporary employees. If security is not to be achieved at the expense of unacceptable limitations on people's freedom of movement, a flexible and user-friendly access control system is a must. SiPass Entro enables you to classify people at a location as employees, customers, service providers, temporary employees, and so on, and assign them different access privileges and/or time restrictions. The system

can be combined with one of Siemens' door-entry phone systems for additional convenience and security.

■ Residential complexes

SiPass Entro is ideally suited to increasing the level of security, service and comfort of residential complexes, without the risk of lost keys and the hassle of managing checkout and usage lists. It can secure all outer doors and garage entrances, provide access to service providers and manage residents' facility reservations.

■ Sports and leisure facilities

SiPass Entro offers affordable systems for smaller sports and leisure facilities, such as tennis courts and tanning salons, which often have limited personnel. SiPass Entro's reservation function in combination with the open interface makes it possible to book these facilities via the Internet. SiPass Entro ensures a better overview of the use of facilities and at the same time reduces the risk of misuse.

Technical data

SiPass Entro MP6.5

Door capacity	512
Card capacity	40,000
Access groups	480
Time schedules	240
Zones	240 global zones, including: alarm control with ASF, anti-passback, roll-call, entrance limitation, interlock
Elevator control	Yes, up to 192 floors
Built-in reservation function	Yes, up to 64 reservation objects
Machine control	Yes, in conjunction with reservation
Door configuration	Entry and exit readers
Day&Night lock control	Yes, with DC22 door controller
Communication interfaces	RS232, RS485, TCP/IP for LAN/WAN
Reader interfaces	BC-Link, Clock&Data, Wiegand 26-bit 8-bit burst or Wiegand 32-bit 8-bit burst
Optional interfaces	Open TCP/IP interface to other third-party systems through BAPSI
Software	Client-based software supplied on CD-ROM that can support up to 10,000 systems/sites
Operating systems	Windows 7, Windows Vista, Windows XP, Windows 2000, Windows Server 2003/2008
Standard languages	Czech, Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Spanish and Swedish.
Multiple-user database	Up to 16 clients
Administrator rights	Configurable in 5 different levels
Backup/restoration of system data	Manual and automatic through mirrored database
Import/export of cardholder data	Yes
Event log	Yes, with real-time update
Event buffer	10,000 in offline mode
Export of events	Yes
DVR integration	Siemens SISTORE AX, CX and MX - one SISTORE DVR per segment controller - maximum of 16 DVRs and 128 cameras
Further information	www.siemens.com/entro



Answers for infrastructure.

■ Megatrends driving the future

The megatrends – demographic change, urbanization, climate change, and globalization – are shaping the world today. These have an unprecedented impact on our lives and on vital sectors of our economy.

■ Innovative technologies to answer the associated toughest questions

Throughout a 160-year history of proven research and engineering talent, with more than 50,000 active patents, Siemens has continuously provided its customers with innovations in the areas of healthcare, energy, industry, and infrastructure – globally and locally.

■ Increase productivity and efficiency through complete building life cycle management

Building Technologies offers intelligent integrated solutions for industry, commercial and residential buildings, and public infrastructure. Over the entire facility's life cycle, our comprehensive and environmentally conscious portfolio of products, systems, solutions, and services for low-voltage power distribution and electrical installation technology, building automation, fire safety and security ensures the:

- optimum comfort and highest energy efficiency in buildings,
- safety and security for people, processes, and assets,
- increased business productivity.



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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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