

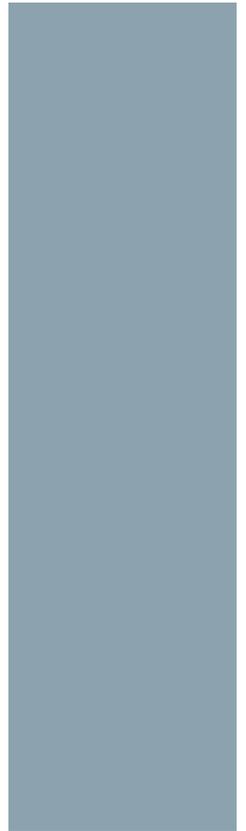
Access control

SiPass Entro – open the door to comprehensive security



Answers for infrastructure.

SIEMENS



SiPass Entro: scalable, flexible and user-friendly access control

In an increasingly uncertain world, implementing a reliable access control system is a crucial step toward improving the security of buildings and protecting property, data and human lives.

Thousands of organisations worldwide place their trust in SiPass® access control systems by Siemens.



SiPass Entro offers perfect adaptation to almost any environment

■ Comprehensive standard access control

SiPass® Entro is well suited for small and medium-sized companies in sectors such as industrial manufacturing, services, healthcare and retail, as well as public agencies and residential complexes. A SiPass Entro system can manage up to 512 doors and 40,000 cardholders.

■ Ideal for multi-site organisations

The SiPass Entro software is available for Windows Server 2003, which means that only one SiPass Entro software installation is required to manage the access control systems at up to 10,000 branch sites.

■ Wide range of compatible readers

A wide range of card and reader technologies are available, including hands-free, long-range and Automatic Vehicle Identification (AVI).

■ Works with intrusion detection

SiPass Entro can simplify the arming and disarming of intrusion detection systems via the use of dual-purpose readers for both access control and intrusion detection.

■ Integration with SISTORE™ DVRs

SiPass Entro includes integrated Digital Video Recorder (DVR) functionality that enables the seamless connection and operation of Siemens' SISTORE range of DVRs.

■ Extensive range of external controls

The system can handle a large number of external controls, including elevator control, alarm outputs, machine control and fire alarm inputs.

■ Emergency support

The system includes roll-call and anti-passback functionality that is invaluable in an emergency.

■ Integrated reservation function

The system's integrated facility reservation function works via the Internet and/or via one or more InfoPoint terminals.

■ Open system for easy integration

SiPass Entro is an open system that is easy to integrate with third-party systems for accounting or time and attendance, for example.

■ User-friendly hardware

The segment controller's built-in display and keypad enable on-site programming – a significant benefit in terms of daily operation and service activities.

■ Cost-efficient and flexible

All versions of SiPass Entro are backward-compatible to allow for future expansions to meet changing needs.

■ Reliable and robust

Since it was launched in 1997, approximately 8,000 systems have been installed, monitoring more than 80,000 doors around the world.

Highlights

- Comprehensive standard access control
- Ideal for multi-site organisations
- Wide range of compatible readers
- Works with intrusion detection
- Integration with SISTORE DVRs
- Extensive range of external controls
- Emergency support
- Integrated reservation function
- Open system for easy integration
- User-friendly hardware
- Cost-efficient and flexible
- Reliable and robust



SiPass Entro components

■ SiPass Entro software

SiPass Entro includes easy-to-use, Windows-based software. 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, which makes it possible to manage access to up to 10,000 sites using a single software installation.

Simplicity and clear operation principles virtually eliminate the chance of mistakes, thereby improving security. 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 SR34i 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. SiPass Entro can also simplify the arming and disarming of intrusion detection systems via the use of dual-purpose readers for both access control and intrusion detection.

Alarm bypass and alarm control functions are unique advantages of SiPass Entro. It's easy to define alarm zones using the Entro software. At each reader or door assigned to an alarm zone, the alarm can be activated or deactivated. 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).

It is possible to activate roll-call and anti-passback functions wherever reliable information is needed about which people are located in a given area. This is particularly critical during emergencies when decisions affecting human lives and property must be made quickly.

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.

■ Segment controller

The SR34i 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 that can be customised for specific customer requirements. The integrated dual port switch makes network installation a simple matter.

SiPass Entro 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.

SiPass Entro software



SiPass Entro kit



■ **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 entry-and-exit readers for an anti-passback system. In addition to Siemens readers, it is 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 SR34i 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. Video recordings are stored in the SiPass Entro event memory and can be recalled and played at the touch of a button.

■ **Open system**

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.

SISTORE MX digital video recorder



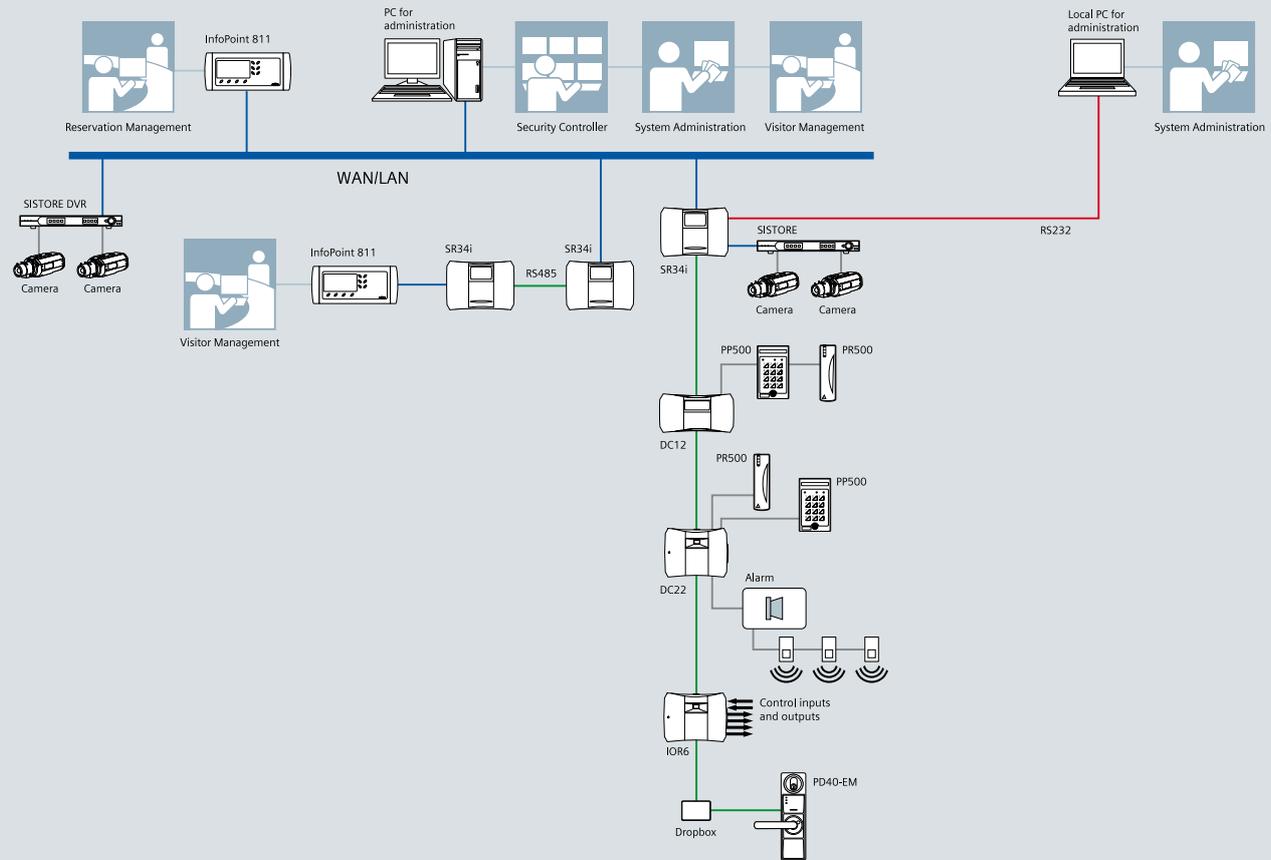
InfoPoint



PP500 and HD500 EM and Cotag readers



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.

■ 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, hands-free and/or long-range readers,

Automatic Vehicle Identification (AVI) at gates or barriers and links to alarm systems.

■ 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.

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

■ 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.

SiPass Entro technical data

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, 32-bit and 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 XP, Windows 2000, Windows Vista, Windows Server 2003
Standard languages	English, French, Spanish, Italian, German, Dutch, Danish, Swedish, Norwegian, Finnish, Czech and Polish
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

Welcome to the world of innovative thinking

■ Innovation

For the last 160 years, Siemens has been investing a great deal in both manpower and research and development. This has ensured a constant stream of new insights, technologies and inventions that enable us to continuously improve the reliability of our products and systems to make them easier to install and operate.

Advances in digital technologies are creating a whole new world of possibilities. Siemens has been at the leading edge of progress in this field and continues to redefine both current and future technologies.

■ Interoperability

Interoperable systems are now supplied alongside such basic requirements as lighting, heating and water in a building. As a company, we know that integration supports the business environment through the interaction of products and systems. We break down the barriers between our access control, intrusion detection and video surveillance product lines in our security portfolio and listen to what the market actually wants. We then develop to deliver both fully integrated and interoperable security systems, based on our 30 years of know-how in security.



Siemens Switzerland Ltd
Building Technologies Group
International Headquarters
Gubelstrasse 22
6301 Zug
Switzerland
Tel +41 41 724 24 24
Fax +41 41 724 35 22

Siemens Building Technologies
A Division of Siemens Ltd (Australia)
885 Mountain Hwy
Bayswater, VIC, 3153
Australia
Tel +61 3 9721 2000
Fax +61 3 9720 9966

Siemens Limited
Building Technologies
Units 1006-10
10/F, China Resources Building
26 Harbour Road
Wanchai
Hong Kong
Tel +852 2870 7888
Fax +852 2407 4457

Siemens Pte Limited
Building Technologies
The Siemens Center
60 MacPherson Road
348615
Singapore
Tel +65 6490 6000
Fax +65 6490 6001

Siemens Building Technologies
Security Products Limited
Brecon House
Llantarnam Park
Cwmbran
NP44 3AB
United Kingdom
Tel +44 871 386 0800
Fax +44 871 386 0888

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.

Windows is a registered trademark of Microsoft Corporation

Subject to change • Order no. A24205-A335-B430 •
© Siemens Switzerland Ltd • Printed in Switzerland • XXXXXX Ah