



Short Guide to Security Products

Interoperable systems made simple.

www.siemens.com/securityproducts

SIEMENS

A message from the head of Security Products



Peter Hawksworth,
Head of
Security Products

I would like to thank you for your interest in Security Products from Siemens. This small guide offers a quick reference of our range of products in the cornerstone technologies of Access Control, Intrusion and Video Surveillance. It is also intended to provide an indication of how the products can be applied, with examples of the networking capability of our systems.

My objective is to offer you an attractively priced, professionally supported selection of excellent security products. Excellence plays a key role in our thinking.

At Security Products I have ensured that substantial investment has been made in our customer support systems. My intention is that our products should be available and accessible. They should be supported in the best way possible whether it is through real experts on the end of a telephone or via excellent online information. I am interested in our customers' success.

Customer satisfaction comes from good products properly installed by people who have been suitably trained. I would encourage any customer to look at our training and personal development programmes which are designed to help our customers build on their existing expertise and keep them up to date with developments in technology and trends in the security world.

Security Products has a network of partners and a plan to develop more. Our partner offering is designed for those customers who see the benefits of a longer term business relationship and are prepared to make the investment in training and in a commercial alliance.

I hope you find the contents of this booklet useful as a reminder of Security Products but if you do require further information we will be delighted to help.

Best wishes
Peter Hawksworth



Security Products from Siemens – You're safe with us!

About us

The Security Products business segment is part of Siemens Building Technologies and has its headquarters in Solna, Sweden. Our lean structure and short decision making processes enable us to quickly develop and deliver the innovative world-class products and systems our customers need.

The primary focus of the SP business is to develop and deliver cutting-edge access control and intrusion detection products and systems. We also offer a complementary portfolio of video surveillance products and a range of interfaces to third-party equipment. We sell our products and systems via an established and highly trained network of partners around the world.

Our market-leading portfolio of products, systems and interfaces makes it easy for our partners to design and install comprehensive security systems that meet all the requirements of end-customers – large and small, in both the private and public sectors – around the world.

SP has local sales offices in Austria, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Norway, Poland, Portugal, Russia, Spain, Sweden, Switzerland and the UK. Customers outside these countries are served by our international sales team.

Access Control Product Portfolio – Security and accessibility in perfect harmony

Our access control portfolio consists of products and systems that ensure that the right people always have access to the right places at the right times, and the wrong people never do. Our access control systems are also easy to integrate with our intrusion detection and video surveillance systems to create truly interoperable security systems.

While security is of utmost importance, our access control products and systems have also been designed to provide a high level of convenience. As a result, our products are not only robust and reliable, they are also very easy to install, use and maintain. All of our systems are both flexible and scalable, which means it's easy to modify or expand them at any time to meet changing needs.

Whatever the customer's needs might be – from managing access at a single door to overcoming the security challenges of large enterprises with thousands of doors and cardholders – we are confident that our access control portfolio offers the ideal product or system to do the job.



Access Control Portfolio Overview



Field level

READERS, CARDS AND TAGS



These products are available both as readers and as Granta reading heads.

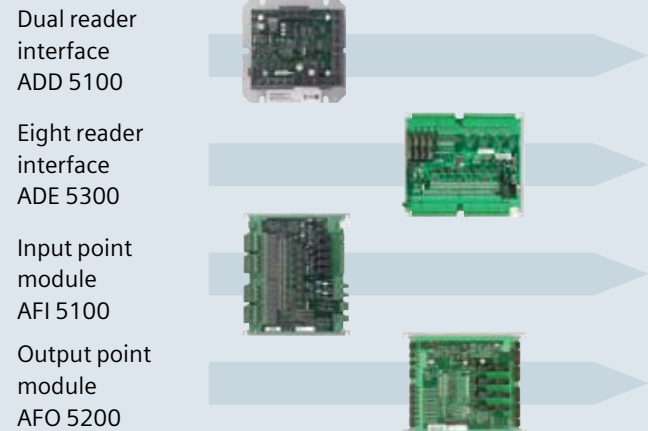
Siemens reader technologies include: Smart Card 13.56 MHz, Cotag, Proximity 125 kHz and Magnetic Stripe.

SINGLE DOOR PRODUCTS

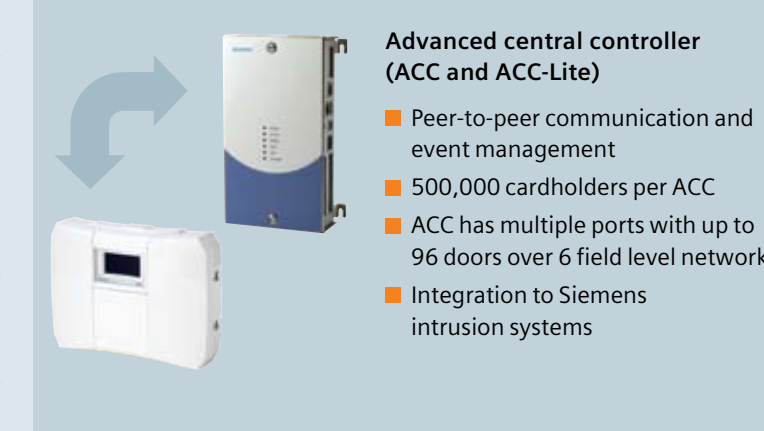


Control level

CONTROLLERS, DOOR CONTROLLERS AND INPUT/OUTPUT MODULES



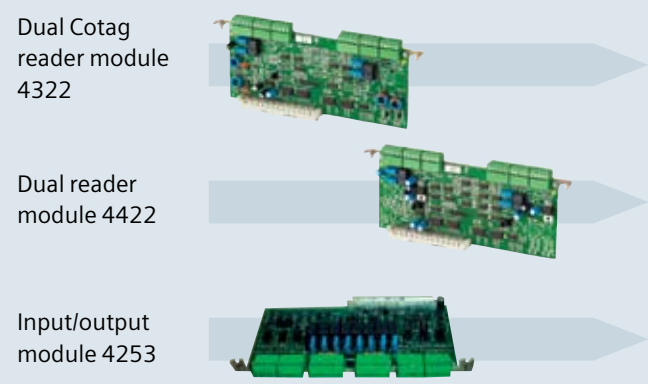
Dual reader interface ADD 5100
Eight reader interface ADE 5300
Input point module AFI 5100
Output point module AFO 5200



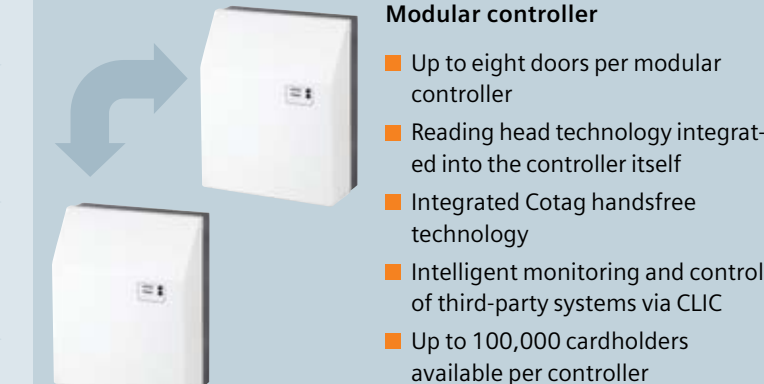
Advanced central controller (ACC and ACC-Lite)

- Peer-to-peer communication and event management
- 500,000 cardholders per ACC
- ACC has multiple ports with up to 96 doors over 6 field level networks
- Integration to Siemens intrusion systems

CONTROLLERS, READER MODULES AND INPUT/OUTPUT MODULES



Dual Cotag reader module 4322
Dual reader module 4422
Input/output module 4253



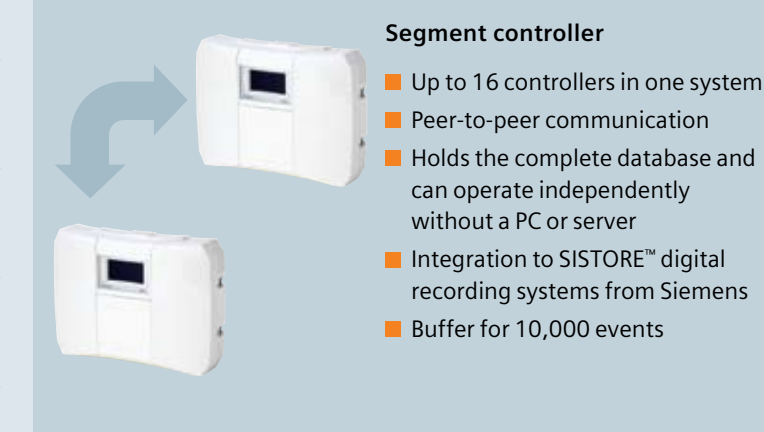
Modular controller

- Up to eight doors per modular controller
- Reading head technology integrated into the controller itself
- Integrated Cotag handsfree technology
- Intelligent monitoring and control of third-party systems via CLIC
- Up to 100,000 cardholders available per controller

CONTROLLERS, DOOR CONTROLLERS AND INPUT/OUTPUT MODULES



Door controller DC12
Door controller DC22
Input/output module IOR6
InfoPoint IP812 Used for reservation



Segment controller

- Up to 16 controllers in one system
- Peer-to-peer communication
- Holds the complete database and can operate independently without a PC or server
- Integration to SISTORE™ digital recording systems from Siemens
- Buffer for 10,000 events



Management level

ADVANCED ACCESS CONTROL



SiPass integrated

- Main features**
- Supports virtually unlimited number of doors and cardholders
 - Available in multiple languages
 - Highly scalable
 - Built-in integration to Siemens intrusion and video surveillance systems
 - Automated functionality through event tasks
 - Intuitive graphical user interface
 - Comprehensive alarm management
 - Built-in report generator
 - Support of HR and business processes
 - Integrated Photo ID
 - Support for custom Wiegand card format
 - Mifare card encoding
 - Online firmware configuration and download
 - Salto integration

ADVANCED ACCESS CONTROL



Granta

- Main features**
- Modular access control for up to 4,096 doors and 100,000 cardholders
 - Supports Cotag handsfree technology as well as a broad range of other reading technologies
 - Use of reading heads makes system particularly cost efficient
 - Available in four core languages
 - Customer translatable
 - Multi-system management capability
 - Easy to integrate with CCTV, intrusion and other systems

STANDARD ACCESS CONTROL



SiPass Entro

- Main features**
- Software to support up to 512 doors and 40,000 cardholders
 - Twelve languages as standard
 - 480 access groups and 240 time schedules
 - 240 zones with five functions include: alarm control, anti-passback, roll call, entrance limitations and interlock
 - 64 reservation objects
 - 192 floors elevator control
 - Smart and easy integration with up to 16 SISTORE DVRs and 128 cameras



Integration

INTEGRATION WITH INTRUSION PRODUCTS



Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH VIDEO SURVEILLANCE PRODUCTS



Improved out-of-hours security and evidence gathering with alarm triggered video recording

Please note that some products may not be available in your country. Contact your sales manager for further information.

Intrusion Detection Product Portfolio – For superior detection and high false alarm immunity

Our intrusion detection portfolio consists of systems and devices for detection & monitoring, control & operation, alarm transmission, alarm verification and remote services.

Both our Sintony and SPC controllers and their wide range of system components such as keypads and expanders provide installers and end users with unmatched flexibility and scalability. They also offer a cost-effective design and installation concept. The innovative technol-

ogy behind our wired and wireless detectors and contacts for perimeter and periphery surveillance, room surveillance and object surveillance, as well as our alarming & signaling devices, provide superior immunity and high detection reliability. Furthermore SPC is offering full remote access to security and maintenance functions via the on-board Web

server or a PC with SPC Pro and multipass communication.

Siemens' intrusion detection products and systems are designed with both installer and end-user requirements in mind. Easy integration with our SiPass integrated access control system ensures that full interoperability is built in as standard.













Intrusion Detection Portfolio Overview

Detection & monitoring



PERIMETER & PERIPHERY SURVEILLANCE

 IGBW6-10 Glass break detector	 ISxxx External PIR detectors
 IMKW6-10 Door / window contact	 IS43x Active IR beams

ROOM & OBJECT SURVEILLANCE

 ADM-I12W1 Motion detector (Fresnel lens)	 Fresnel detectors E-Line detectors Grades 2/3
 IR160W6-10 Motion detector (black mirror)	 Black mirror detectors IR1xx / IR2xx Grades 2/3
 IR65W6-10 Motion detector (360°)	 Ultrasonic detectors UP3xx Grades 2/3
 IWFW6-10 Flood detector	 OP412 Optical smoke detector
 IOPW6-11 Smoke detector	 GM7xx Seismic detectors

ALARMING & SIGNALLING DEVICES

 Si2 Way Outdoor siren	 Silent alarms
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Wireless detectors and peripherals Wired detectors and peripherals

Control level

SPC SERIES

SPC4XXX/ SPC5XXX/SPC6XXX control units

- 8 to 512 inputs
- Up to 120 wireless inputs
- 6 to 512 outputs
- 4 to 60 partitions with independent settings
- Up to 32 keypads
- Up to 64 "2-year" calendars
- Up to 512 definable users

System units

- SPCExxx/SPCPxxx** System expanders and power supplies
- SPCW110** SiWay wireless kit
- SPCN110** PSTN module
- SPCN310** GSM module
- SPCW130** SiWay X-BUS expander

Door control

- SPCA210** 2-door expander

Programming/Maintenance

- Local programming via keypad
- Local or remote programming via PC (SPC Pro software)
- Configuration transfer/back-up with Fast Programmer
- Local or remote programming via onboard web server

SPCK42x Wired LCD keypads with/without integrated card reader or wireless receiver

SPCK62x Wired LCD comfort keypads with/without audio/ card reader

IRCW6-11 Remote control

SI SERIES

SI1xx/SI2xx/SI3xx/SI4xx control units

- 6 to 464 inputs
- 5 to 154 outputs
- 3 to 16 partitions with independent settings
- Up to 32 verification zones
- Up to 32 keypads
- Up to 20 "2-year" calendars
- Up to 497 definable users

System units

- SAT12** Addressable expander
- IEGW6-12** SiWay/Si2Way wireless E-Bus gateway
- SMN42/SMN43** IP and IP/GSM modules
- SML51** PSTN module

Door control

- SiPass card reader (arm/disarm)
- SMG71** Addressable card reader gateway (SI4xx panels)

Programming/Maintenance

- Local programming via keypad
- Local or remote programming via PC (Sylcom software)
- Macro tool for customised functionality

SAK84/SAK94 LCD keypads. Add on key switch/annunciation modules

SAK51/52/53 LCD keypads with 2-line display. With/without audio

IRCW6-11 Remote control

Alarm transmission and verification

COMMUNICATION METHODS

- IP**
 - Primary source of communication
 - Alarm transmission
 - Configuration and maintenance
 - Audio/video verification
- GSM/GPRS**
 - Primary source of communication or
 - Back-up to PSTN communication
 - GPRS back-up to IP communication
 - Alarm transmission
 - Configuration and maintenance
 - SMS alert and control
- PSTN (analogue telephone networks)**
 - Primary source of communication
 - Back-up to GSM communication
 - Alarm transmission
 - Configuration and maintenance

AUDIO/VIDEO VERIFICATION

SPCV32x Addressable 2-way device with speaker/microphone. Audio verification over IP.

IP camera addressed to SPC control panel.

COMMUNICATION METHODS

- IP and GSM (GPRS)**
 - SMS alerts
 - Event transmission
 - Remote maintenance over IP (GPRS back-up)
- PSTN (analogue telephone networks)**
 - Alarm transmission CMS and voice
 - Audio alarm verification
 - Configuration and maintenance
- ISDN**
 - Alarm transmission CMS and voice
 - Audio alarm verification
 - Configuration and maintenance

AUDIO VERIFICATION

WAC12 Addressable 2-way device with speaker/ microphone. Audio verification over PSTN/ISDN.

Remote services

ALARM MANAGEMENT

- Connection to Central Monitoring Station (CMS) over IP and GSM (GPRS)
- Alarm notification and verification (audio, video) over IP
- Alarm notification over PSTN
- Alarm notification via SMS event messages

REMOTE PROGRAMMING & MAINTENANCE

- Store and retrieve controller data via SPC Pro, SPC Fast Programmer or Web server
- Off-site pre-configuration
- On-site or remote firmware upgrades
- Full access to security and maintenance functions via the on-board Web server or a PC with SPC Pro

ALARM MANAGEMENT

- Alarm notification and verification (audio) over PSTN and ISDN
- Alarm notification via SMS event messages
- Voice announcements to designated individuals (incl. audio verification)
- Redundant connection via IP and GSM (GPRS)

REMOTE PROGRAMMING & MAINTENANCE

- Configuration and maintenance over PSTN, ISDN and IP
- Off-site pre-configuration
- Parameter and service events server
- Full access to security and maintenance functions via a PC with Sylcom

Integration

INTEGRATION WITH ACCESS PRODUCTS



Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH VIDEO SURVEILLANCE PRODUCTS



Improved out-of-hours security and evidence gathering with alarm triggered video recording

Please note that some products may not be available in your country. Contact your sales manager for further information.

Video Surveillance Product Portfolio – Full visibility around the clock

Our video surveillance portfolio is designed to complement our access control and intrusion detection portfolios. It consists of dome and bodied cameras (both with IP variants), lenses, digital video management systems, matrix systems, pan & tilt heads, housings and accessories. As with all Siemens products, the latest manufacturing techniques are used

to produce video surveillance equipment of exceptional quality.

Siemens' video surveillance products and systems are designed with both installer and end-user requirements in mind. Easy integration with our SiPass integrated and SiPass Entro access control systems ensures that full interoperability is built in as

standard. In addition to this, remote access via internet or smart phones is easily achieved to ensure you are always in control, even when you are on the move.



Field level

ANALOGUE CAMERAS



IP CAMERAS



Control level

ANALOGUE CAMERA TRANSMISSION



SINGLE CAMERA IP ENCODER



HYBRID VIDEO RECORDER



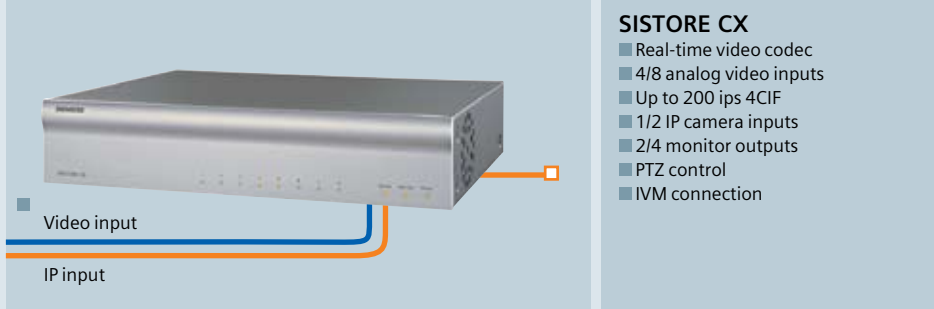
IP CAMERA RECORDING



ANALOGUE CAMERA RECORDING



MULTIPLE CAMERA IP ENCODER / DECODER



MONITORING AND CONTROL



IP CAMERA RECORDING (SOFTWARE ONLY)

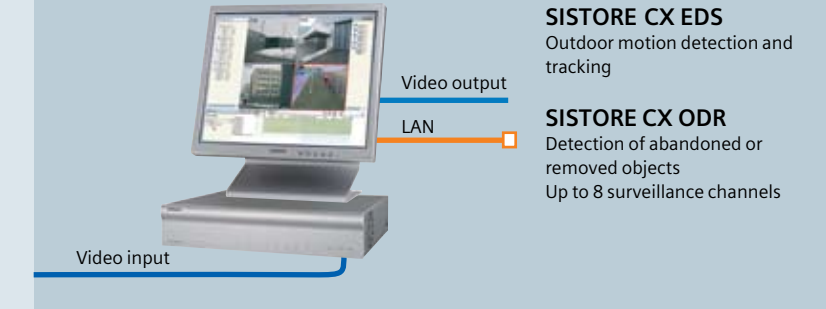


Software management level

SISTORE AX REMOTE VIEWING OPTIONS



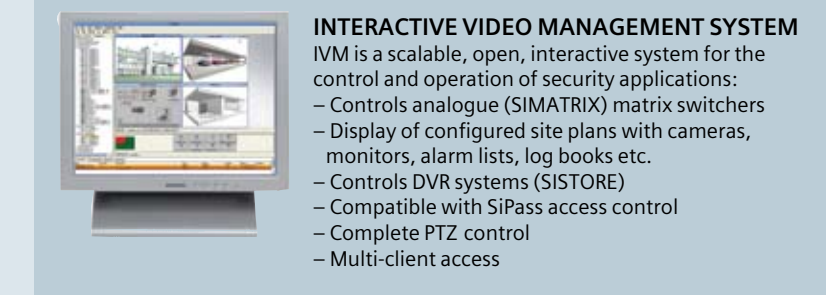
EMBEDDED REAL-TIME VIDEO ANALYSIS



SISTORE MX REMOTEVIEW SOFTWARE



VIDEO SOFTWARE



Integration



Improved operational efficiency with centrally managed security and building management systems

INTEGRATION WITH INTRUSION PRODUCTS



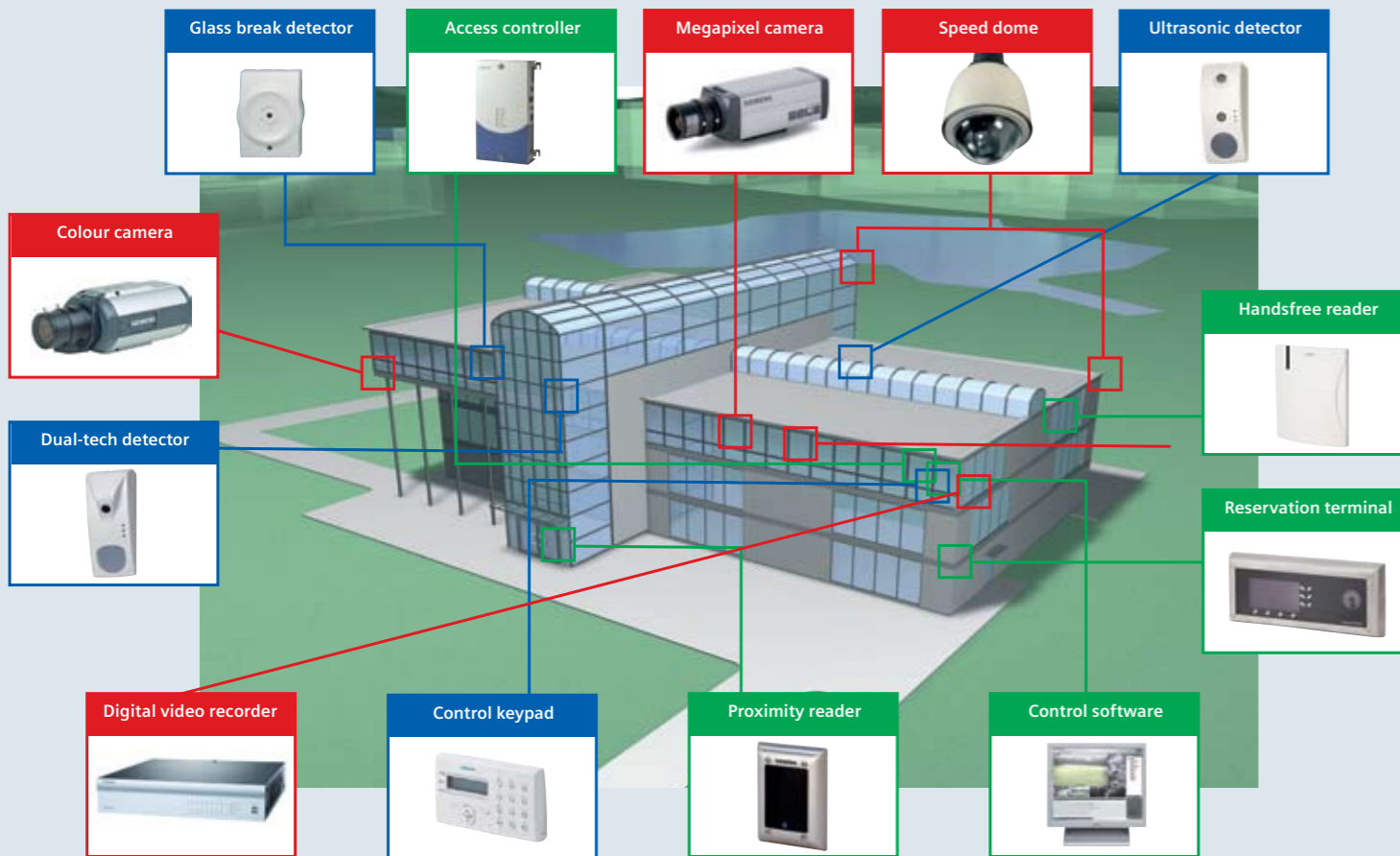
Improved out-of-hours security and evidence gathering with alarm triggered video recording

Please note that some products may not be available in your country. Contact your sales manager for further information.

Interoperable security systems

Electronic security systems from Siemens have inherent interoperability capability, meaning that regardless of the system size, the components can interact and be controlled from one central point at all times. So regardless of the business application, everybody can benefit from a centralised security management which focusses on their specific risks and priorities.

- Access Control
- CCTV
- Intruder detection



Wind turbine manufacturing

Siemens installed a comprehensive and fully interoperable security system for a wind turbine and blades manufacturer in the south of Spain, whose primary objective is to generate a type of sustainable energy that benefits both society and its stakeholders. The security system supplied by Siemens was effectively a turnkey solution that manages security in the wind turbine plant from a single control room (supported by a back-up secondary control room). The comprehensive security system sits on its own dedicated network, and is fully interoperable with SiPass access control, Intrunet intruder alarm and SISTORE video surveillance systems working together to provide a centralised management of complete sequences of events.



Österreichische Post AG

The importance of interoperability for organisations with a large number of satellite operations has been demonstrated by a project in which Siemens Building Technologies has supplied a managed security system for some 1310 post offices throughout Austria. The system was supplied to Österreichische Post AG, based on their requirements for a robust, reliable and easily monitored security system. By using the existing LAN network, Siemens were able to provide a solution which combined intrusion detection and video surveillance for each Post Office, with the system reporting back to the Siemens control centre located in Nuremberg, Germany.



George Pappas Automobil

Georg Pappas Automobil AG in Salzburg, Austria, established its new HQ to accommodate a remarkable display of famous classic cars and to provide a wide range of automotive services to its customers. As a result, an optimum fire and security system with the flexibility to monitor from a single control point was required. The solution from Siemens was a system comprising access control, intrusion detection, video surveillance, fire detection, fire protection and extinguishing, and audio evacuation, all controlled from the building's security control centre.



Great Ormond Street

Great Ormond Street treats over 90,000 patients each year for some of the rarest and most complex conditions. It is a high pressure environment, with a heavy and constant throughput of staff, patients and visitors. As a result, it required a system that could cope with this wide variety of users, including a high number of visitors, and yet be so convenient to use that it did not interfere with the day-to-day functioning of this unique medical facility. In choosing an access control system, the hospital was also looking to the future. Pending modification of the hospitals existing IT systems, it needed visitor ID cards that could also be used to facilitate cashless vending throughout the building, enabling patients and visitors to use their ID to purchase, for example, phone calls and refreshments.



East Midlands Ambulance Service, UK

East Midlands Ambulance Service was one of Siemens largest SiPass Entro sites in the UK, consisting of over 5000 cards and 210 doors. Thanks to the systems built in migration, EMAS has now been upgraded to Siemens SiPass integrated access control platform with no redundancy of hardware. The large Ambulance service, split over 41 separate ambulance depots, boasts an impressive SiPass system that secures three separate counties through the networked system. Originally chose for its scalability, SiPass Entro has proven a very effective access control solution for the Ambulance Trust, but with additional sites coming online they decided it was time to upgrade the system to allow for further future expansion, hence the migration to SiPass integrated.



Siemens AB
Industry Sector
Building Technologies Division
Security Products
Englundavägen 7
Box 1275
17124 Solna
Sweden
Tel: +46 8 629 0300
Fax: +46 8 627 0096

Siemens AG
Industry Sector
Building Technologies Division
Fire Safety & Security Products
Siemensallee 84
76187 Karlsruhe,
Germany
Tel. +49 (721) 595-4291
Fax: +49 (721) 595-2806

Siemens plc
I BT Security Products
Suite 7
Castlegate Business Park
Caldicot
South Wales
NP26 5AD
UK
Main: +44 (0) 1291 437920
Fax: +44 (0) 1291 437943

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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