

SIEMENS



Short Guide to Security Products

Interoperable systems made simple.

A message from the head of Security Products



Peter Hawkworth,
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 Hawkworth



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 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

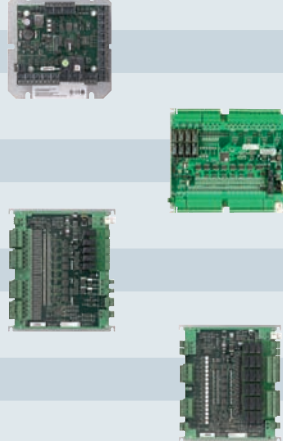
CONTROLLERS, DOOR CONTROLLERS AND INPUT/OUTPUT MODULES

Dual reader interface
ADD 5100

Eight reader interface
ADE 5300

Input point module
AFI 5100

Output point module
AFO 5100



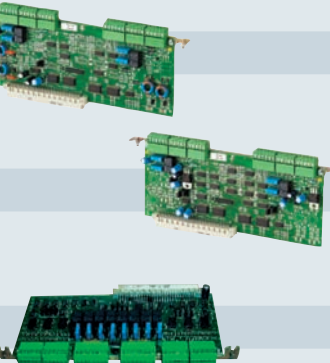
- Advanced central controller (ACC and ACC-Lite)**
- Peer-to-peer communication and event management
 - 500,000 cardholders per ACC
 - ACC has multiple ports with up to 96 doors over 6 field level networks
 - Integration to Siemens intrusion systems

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

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.



Intrusion Detection Portfolio Overview

Detection & monitoring

PERIMETER & PERIPHERY SURVEILLANCE

Glass break detectors
Passive and active

IMKW6-10
Door / window contact

ISxxx
External PIR detectors

IS43x
Active IR beams

ROOM & OBJECT SURVEILLANCE

ADM-112W1
Motion detector (Fresnel lens)

IR160W6-10
Motion detector (black mirror)

E-Line Motion detectors
Grade 2/3 (Fresnel lens)

Ultrasonic detectors
UP3xx Grades 2/3

GM7xx
Seismic detectors

MAGIC Motion Detector
PDM12-lxxx

MAGIC Motion Detector
PDM18-lxxx

ALARMING & SIGNALLING DEVICES

Si2 Way
Outdoor siren

Silent alarms

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

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

System units

SPCExxx/SPCPxxx
System expanders and power supplies

SPCW130
SiWay X-BUS expander

SPCW110
SiWay wireless kit

SPCN110
PSTN module

SPCN310
GSM module

Programming/Maintenance

Local programming via keypad

Configuration transfer/back-up with Fast Programmer

Local or remote programming via PC (SPC Pro software)

Local or remote programming via onboard web server

Door control

SPCA210
2-door expander

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

IRCW6-11
Remote control

System units

SAT12
Addressable expander

IEGW6-12
SiWay/Si2Way wireless E-Bus gateway

SMN42/SMN43
IP and IP/GSM modules

SML51
PSTN module

Programming/Maintenance

Local programming via keypad

Local or remote programming via PC (Sylcom software)

Door control

SiPass card reader (arm/disarm)

SMG71
Addressable card reader gateway (SI4xx panels)

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
- Smartphone application**
 - SPCanywhere

AUDIO/VIDEO VERIFICATION

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

IP camera for audio video verification

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

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.

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 technology behind our wired and wireless detectors and contacts for perim-

eter 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.



Field level

ANALOGUE CAMERAS



IP CAMERAS



Control level

ANALOGUE CAMERA TRANSMISSION



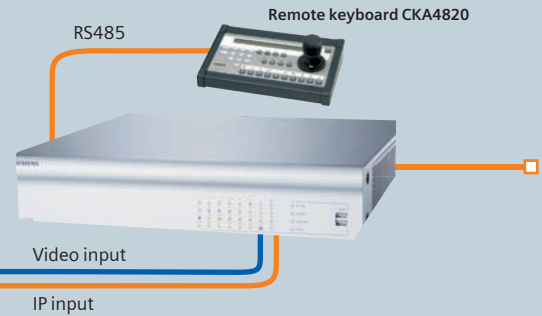
- SIMATRIX NEO**
 - Expandable up to 224 video inputs
 - 32 video outputs
 - Modular and scalable system
 - Simultaneous multi-protocol-telemetry
 - Ethernet connection
 - IVM interface

SINGLE CAMERA IP ENCODER



- CNE1000 IP Encoder**
 - 1 channel 4CIF, 25 ips
 - MJPEG, MPEG4, H.264

HYBRID VIDEO RECORDER



- SISTORE MX 3G Hybrid video recorder**
 - 8–32 analog video inputs
 - Up to 400 ips 4CIF for analog
 - Up to 32 IP camera inputs
 - Up to 100 ips 4CIF for IP
 - Direct streaming of IP cameras
 - Up to 8 video monitor outputs
 - 16 audio channel inputs
 - Up to 4 audio channel outputs
 - PTZ control, IVM connection
 - Export via DVD writer

IP CAMERA RECORDING



- SISTORE MX IPVR IP Hybrid video recorder**
 - Up to 32 IP camera inputs
 - Up to 800 ips 4CIF for IP
 - Direct streaming of IP cameras to MX client
 - Up to 4 video monitor outputs
 - 16 audio channel inputs
 - Up to 4 audio channel outputs
 - PTZ control
 - IVM connection

ANALOGUE CAMERA RECORDING



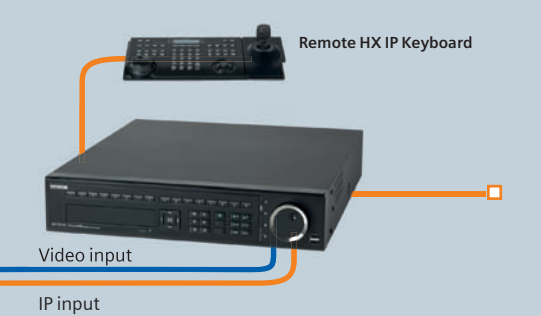
- SISTORE AX**
 - 4/8/16 video inputs
 - Up to 400 ips 4CIF
 - Up to 4 audio channel inputs
 - H.264 capability
 - PTZ control
 - IVM connection
 - Export via DVD writer

MULTIPLE CAMERA IP ENCODER / DECODER



- SISTORE CX**
 - Real-time video codec
 - 4/8 analog video inputs
 - Up to 200 ips 4CIF
 - 1/2 IP camera inputs
 - 2/4 monitor outputs
 - PTZ control
 - IVM connection

MONITORING AND CONTROL



- Vectis HX**
 - Hybrid technology
 - Full HD resolution
 - H.264 compression
 - Remote access via Siemens RAS, Internet or Smartphone
 - ONVIF2 compatibility
 - High resolution up to 2 megapixels per IP camera
 - Integration of VSS_SDK interface

IP CAMERA RECORDING (SOFTWARE ONLY)



- SISTORE MX NVS / Vectis HX NVS IP camera recording software**
 - 4 to 64 / 8 to 64 IP camera inputs
 - Megapixel recording up to 5 MP
 - Direct streaming of IP cameras to client
 - PTZ control
 - IVM connection



Software management level

SIEMENS RAS REMOTE VIEWING OPTIONS



EMBEDDED REAL-TIME VIDEO ANALYSIS



SISTORE MX REMOTEVIEW SOFTWARE



Integration

INTEGRATION WITH ACCESS PRODUCTS



- 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

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Video Surveillance Product Portfolio – Full visibility around the clock

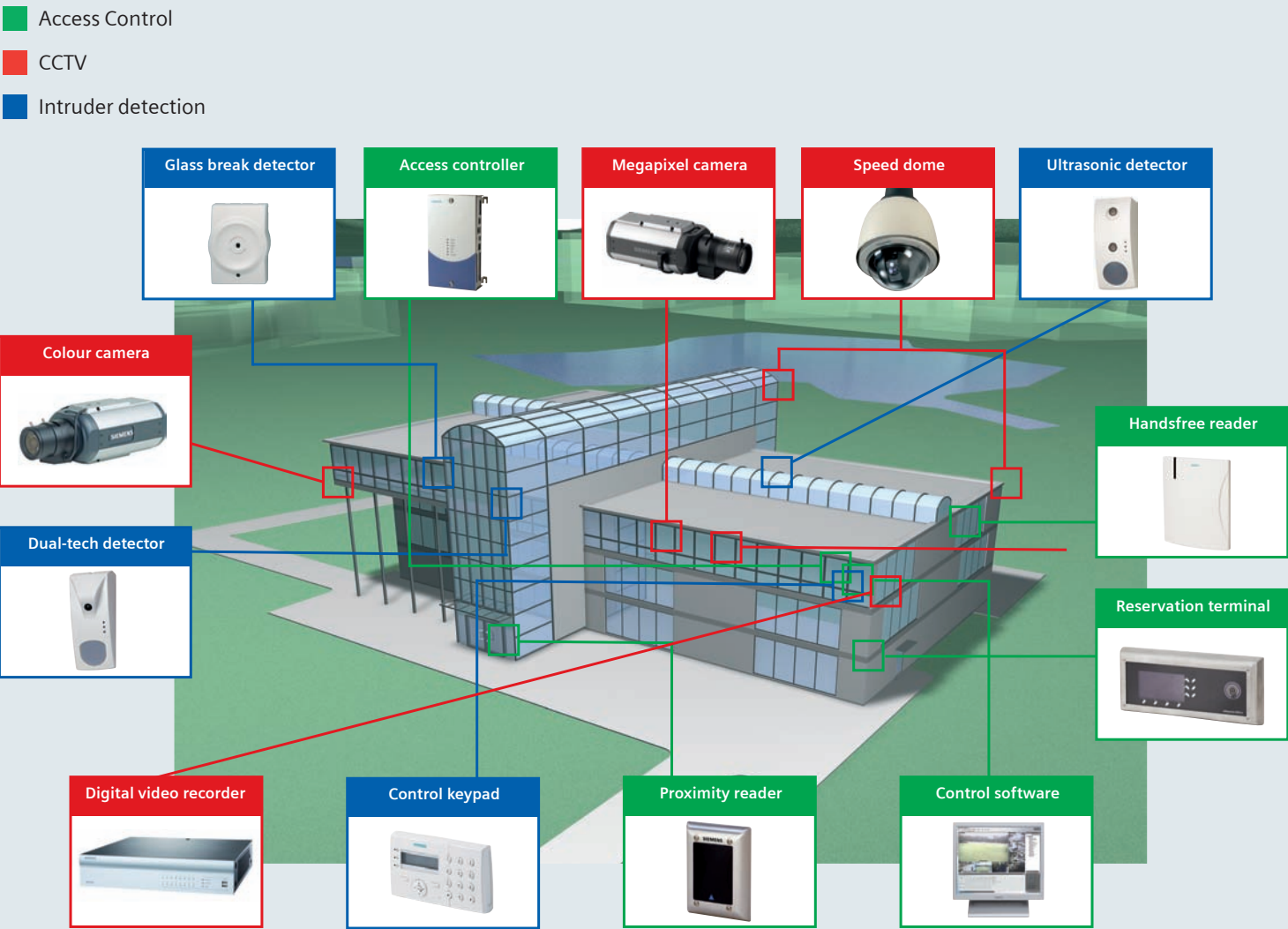
Our video surveillance portfolio is designed to complement our access control and intrusion detection portfolios. It consists of dome and bodied cameras (both with IP variants), lenses, digital video management systems, matrix systems, pan & tilt heads, housings and accessories. As with all Siemens products,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



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.



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.

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.



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.

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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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Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

"We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure."