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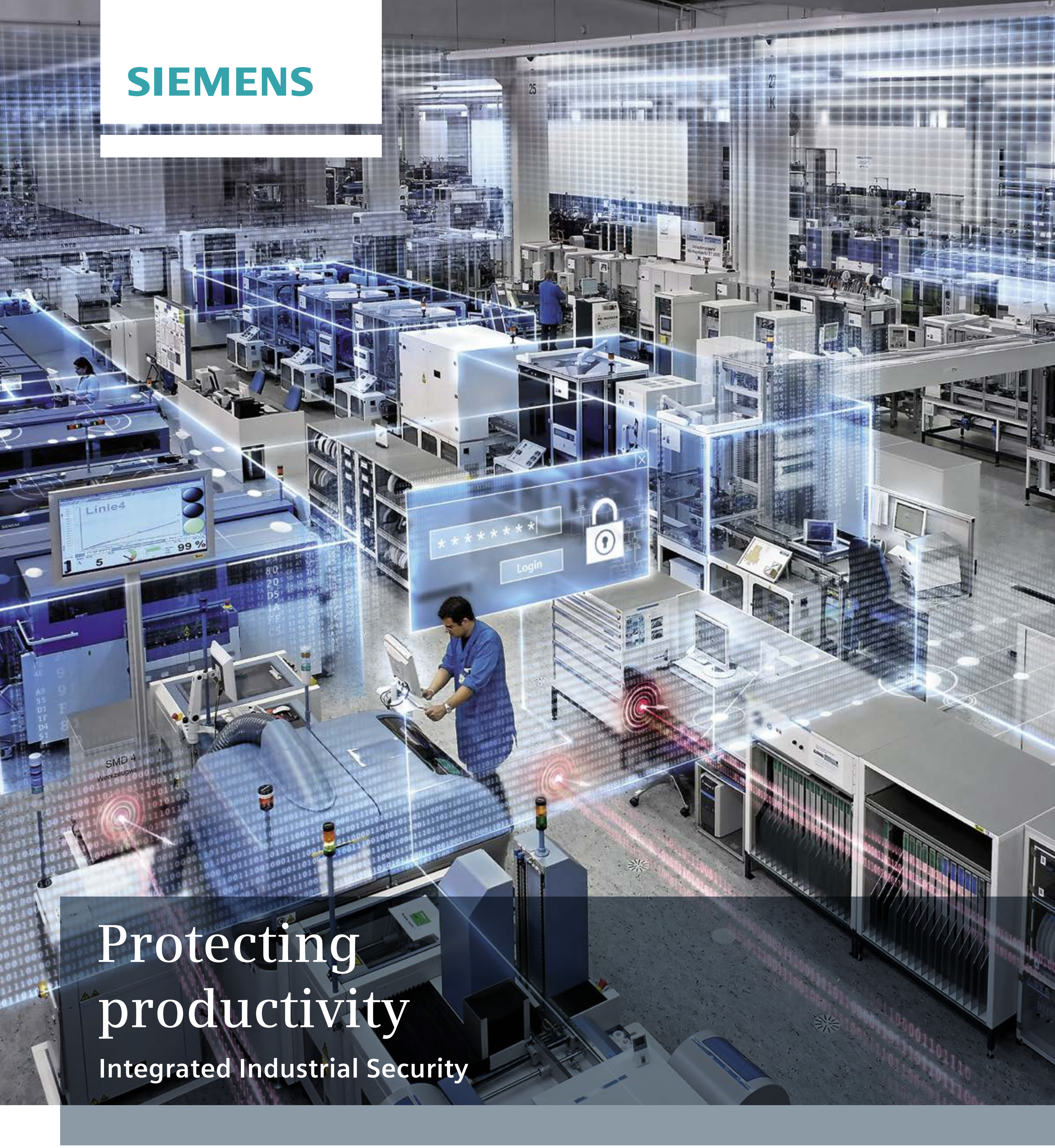


Protecting productivity

Integrated Industrial Security

siemens.com/industrial-security

Defense in Depth

Security threats force you to take action

Defense in Depth

With defense in depth, Siemens provides a multi-level concept that protects your plant both all around and in depth. The concept is based on the elements plant security, network security, and system integrity, as recommended by ISA 99 / IEC 62443 – the leading standard for security in industrial automation.

Plant security

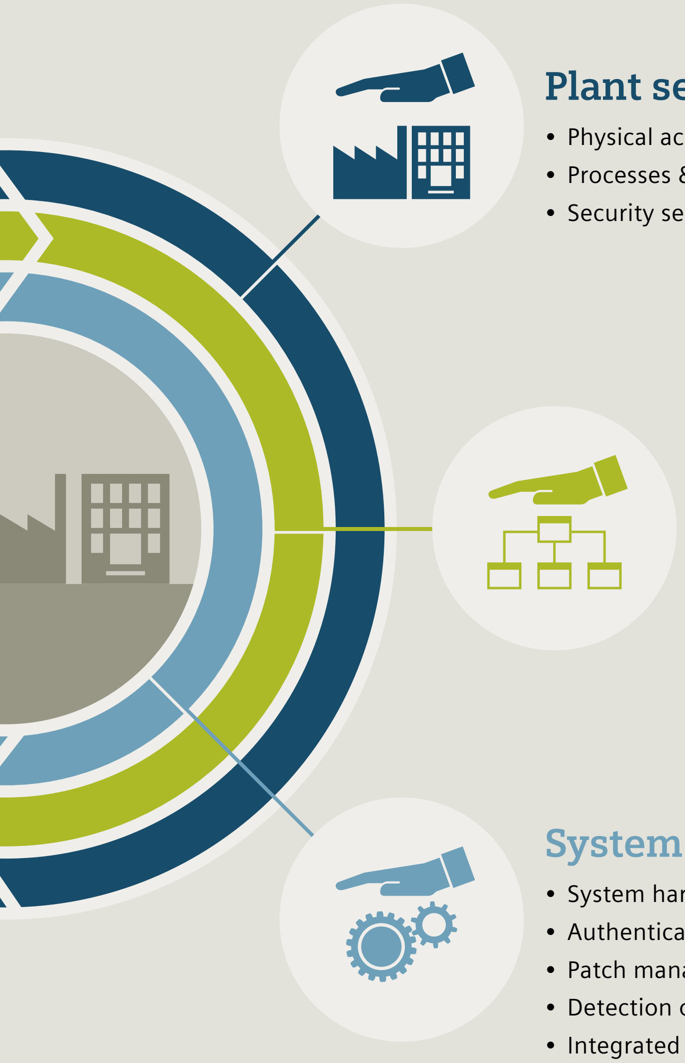
Plant security prevents unauthorized persons from gaining physical access to critical components using a number of different methods. This starts with conventional building access and extends to securing of sensitive areas by means of key cards. Tailored industry security services include processes and guidelines for comprehensive plant protection. These range from risk analysis and the implementation and monitoring of suitable measures to regular updates.

Network security

Reliable firewalls which protect production applications from unauthorized access from standard office environments are indispensable in this day and age. Segmenting of the plant network into individual subnets, for example with a cell protection concept or by establishing a demilitarized zone (DMZ) on the basis of SCALANCE, offers additional protection. Secure worldwide access to outlying plants is facilitated by remote maintenance functions via VPN.

System integrity

The third pillar of defense in depth is assuring system integrity. Here the focus is on protecting automation systems and control components such as SIMATIC S7-1200 and S7-1500, as well as SCADA and HMI systems, against unauthorized access and on fulfilling special requirements such as know-how protection. This component is also concerned with user authentification, access and change permissions, as well as system hardening, i.e. reducing the vulnerability of components against network attacks.



Plant security

- Physical access protection
- Processes & guidelines
- Security services protecting production plants

Network security

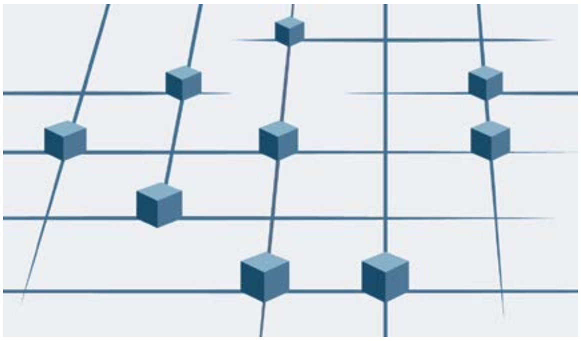
- Cell protection, DMZ and remote maintenance
- Firewalls and VPN

System integrity

- System hardening
- Authentication and user administration
- Patch management
- Detection of attacks
- Integrated access protection in automation

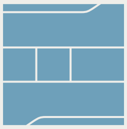
Industrial Security as part of Totally Integrated Automation

With industry standard security products for network security and system integrity which are integrated in the TIA Portal, your automation solutions can be efficiently safeguarded and the defense in depth concept for the protection of industrial plants and automation systems can be implemented.

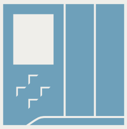


Totally Integrated Automation
Efficient interoperability of all automation components

Hannover Messe Highlights 2015



SIMATIC S7-1200



SIMATIC S7-1500

Functions:	Benefits:
Manipulation protection at the control level	Improved detection of manipulated configuration data
Graded security concept including HMI connection	Protection against unauthorized configuration changes
Expanded access protection with Security S7 communication processors by means of firewall and VPN	Additional protection against unauthorized network access
Know-how and copy protection	Protection of intellectual property in configuration data and against unauthorized duplication

Find out more:

siemens.com/
industrial-security

Experience and discover dependable Industrial Security:

Get acquainted with the defense in depth concept from Siemens and learn about all aspects of industrial security.

Industrial security –
at a glance!

Thinking security to ensure productivity

Constantly monitored and integrated security is essential for industrial automa

More and more often, Ethernet connections extend all the way to the field level. This
advantages for plant automation. At the same time, however, production processes t
the past are now open to attack from both the outside and inside.

Only an approach that integrates or includes security mechanisms with a comprehens
of automation can provide reliable protection. Siemens supports you in implementing
measures – as part of our integrated range of products and services for industrial secu

Security information:

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates.

For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit: **http://www.siemens.com/industrialsecurity**

To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit: **http://support.automation.siemens.com**

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