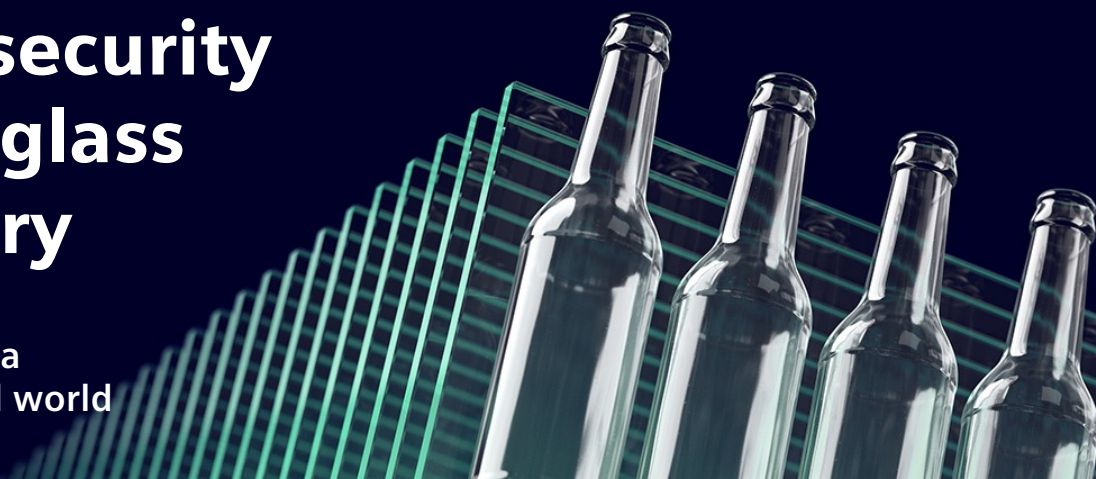




Industrial Cybersecurity in the glass industry

Solutions for a
secure digital world



The challenge

In the era of digitalization, more and more information technology is being used in industrial automation. Likewise, a high degree of connectivity is required for Industry 4.0. The key phrase here is the "Internet of Things".

This greater degree of networking leads to much higher numbers of cyber attacks, which are also becoming more targeted and complex, on offices and industrial plants. Cyber crime is wide-spread and costs the global economy 400 billion US dollars each year. Cyber attacks affect companies of all sizes and in all markets.

However, high cost pressure and production availability are barriers to the implementation of appropriate protection mechanisms. Prioritized and balanced security investment is required for this. Another difficulty is that, due to the huge increase in cyber threats, there is a lack of adequately qualified personnel to identify the security vulnerabilities, implement protective measures and react to attacks.

The solution

With "Defense in Depth", Siemens provides a multi-level Cybersecurity concept that gives your plant both all-round and in-depth protection. The concept is based on plant security, network security and system integrity as recommended by the international standard IEC 62443. You are supported in this by the Siemens Industrial Cybersecurity Services.

Plant security is achieved through physical access protection, implementation of processes and guidelines on Industrial Cybersecurity, and comprehensive security monitoring. Network security monitors all the interfaces between the office network and plant network as well as remote maintenance accesses with the aid of network access protection, network segmentation, encrypted communication, and Zero Trust principles.

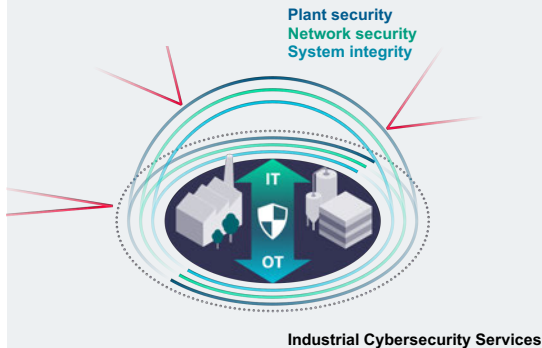
System integrity is guaranteed by system hardening, patch management and methods for detecting attacks.

The Siemens Industrial Cybersecurity Services experts support you in this context with a holistic approach – from analysis of the threats and vulnerabilities according to IEC 62443 and ISO 27001, through execution of the protective measures derived in this way, all the way to managed services for comprehensive and continuous protection against cyber threats.

Benefits of Industrial Security from Siemens

- Assured plant availability
- Highly sophisticated malware detection
- Secure remote access
- Real-time communication according to cell protection concept
- Cybersecurity support over the entire life cycle
- Transparency in relation to assets used
- Compliance with cybersecurity standards

"Defense in Depth" Cybersecurity concept based on IEC 62443



Siemens products and systems with integrated security



Know-how and copy protection



Authentication and user management



Firewall and VPN (virtual private network)



System hardening, continuous monitoring and anomaly detection

Siemens Industrial Cybersecurity Services

Transparency about the current security status

Increased security level by closing security gaps

Long-term protection through continuous security management



Protection of confidential data and information, as well as intellectual property.



Reduced risk of production downtimes and plant damage through proactive defense based on global threat analyses.



Continuous protection over the entire operating life cycle of your plants.



Calculable and transparent planning Benefit from Siemens' competence and know-how and ensure optimum use of your Cybersecurity budget.



Transparency with respect to data traffic in industrial networks and early detection of anomalies and cyber threats.



In accordance with the requirements of standards, regulations and laws on the protection of critical infrastructures.

Available service portfolio

Portfolio	Description
Plant Security Services	Security Assessments, Scanning Services, Industrial Security Consulting, Security Awareness Training
Network Security Services	Industrial Next Generation Firewall, Industrial DMZ Infrastructure, Industrial Anomaly Detection
System Integrity Services	Endpoint Protection, Vilocity Vulnerability Services, Patch Management, SIMATIC DCS/SCADA Infrastructure, SIMATIC Security Service Packages

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