

# When the assembly line turns around IT-Security in SCADA Environments

## INDUSTRY 4.0 IS LIVE. SECURITY NOT YET!

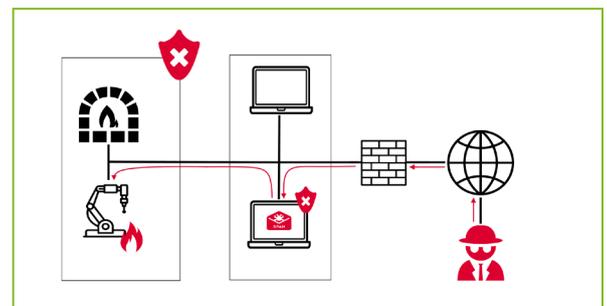
The increasing functionality and global networking offer operators of industrial plants new possibilities and greater flexibility. However, the digitalization also offers potential attackers more and more attack vectors for compromising and manipulation. The systems for the control of industrial installations are often only deficient, or not at all protected. Sustainable measures are needed.

The actuality of the danger is to be followed almost daily in the media. For example, a complete takeover of a furnace in a German steel mill had dramatic consequences and costs in millions. The safety of waterworks and other energy sources as part of the critical infrastructure has already been categorized as severely deficient and clearly shows that an intervention in digital systems can have a threatening impact on the real world.

Programmable logic controllers are no longer used exclusively for opening and closing analog circuits. In the meantime, they represent complex computer systems with a variety of services and offer, among other things, integrated web and FTP functionalities and the possibility of remote maintenance and programming.

As one of the leading IT system integrators, CSPi supports you in examining the implemented IT security functions and is your partner for the creation of a security concept and its implementation.

Internet, mini-PC or the detour via an infected office PC:  
Even a small loophole is enough for an attacker to compromise important industrial components.



We are the digital immune system  
for your Business. **CSPi – Secure IT**

## Our Offer

With the CSPI, you have the opportunity to win a partner from all areas, from security analysis to the implementation of protective measures and their continuous monitoring. Our recipe for individual advice is based on international or national standards and recommendations from national authorities and industry associations and is divided into several substeps:

1. Identification of critical assets and risk analysis
2. Selection of measures and creation of a concept including the IT security architecture
3. Training and awareness raising of employees
4. Implementation of protective measures
5. Monitoring the effectiveness and correction or improvement of the measures

This point includes, in particular, the recording of the company's security situation in order to detect and respond to attacks. This usually requires the establishment of a Security Operation Centers for continuous monitoring and response to security events. The effectiveness of the implemented measures and the determination of the safety level are carried out by means of recurrent audits and safety tests.

## Live Hacking

With „Hack the factory“, we offer you the opportunity to learn about the possibilities of safeguarding your production network by means of a live demonstration in a simulated industrial plant with real control components. The attacks shown here are prevented within the framework of a comprehensive security concept of the infrastructure in cooperation with our partner RadarServices.

A single contact for your digital immune system. To learn more about CSPI Technology Solutions' Security Services and to get an analysis for your company, please contact us at **+44 (0) 118 – 989 3843** or **uk-ts-sales@cspi.com**. We would be pleased to present our services to you in detail.



### RadarServices – Solutions for Industry Control Systems

RadarServices is Europe's leading technology company in the field of Detection & Response. In focus: The early detection of IT security risks for corporations and public authorities offered as a Solution or a Managed Service. The cutting-edge, inhouse-developed technology platform is the basis used for building up a client's Security Operations Center (SOC) or it is used in combination with our expert analysts, documented processes and best practices as SOC as a Service. The result: Highly effective and efficient improvement of IT security and IT risk management, continuous IT security monitoring and an overview of security-related information throughout the entire IT landscape of an organization.



### CSPI Technology Solutions – We stand for secure IT

Since industrial plants and critical infrastructures have to be highly available, eg for electricity or water supply, the systems for their monitoring and control have so far mostly been isolated. With increasing networking (IoT, Industrie 4.0), however, these systems become more vulnerable to manipulations and attacks. ICS (Industrial Control System) or SCADA (Supervisory Control and Data Acquisition) systems form the core of industrial plants and critical in- frastructures. In order to improve the IT security of these systems, one must have the know-how of the applied protocols and IT systems. In the 80s and 90s, CSPI has written a large part of the control software for industrial equipment itself and has a profound knowledge of these processes and applications. In conjunction with the modern „IT security solutions“ from RadarServices, we can make industry 4.0 much safer.