

Physical Anomaly Detection in your OT Environment CSOC enters Strategic Partnership with PHYSEC

The integration of IT systems with physical facilities presents companies with new cybersecurity challenges. Classic IT security such as firewalls, endpoint protection, or access controls have become established standards today. However, the risk profile is shifting: Production facilities, OT networks, and technical infrastructures are increasingly interconnected with digital systems. At this interface, a security-critical area emerges that has often not been adequately covered until now.

Against this backdrop, CSOC (Certified Security Operations Center GmbH) and PHYSEC (PHYSEC GmbH) announce their strategic partnership. The goal of this partnership is to comprehensively represent cyber-physical security for the first time within an integrated operational model.

PHYSEC stands for monitoring physical security in OT networks and similar environments. With its specialized technology for physical anomaly detection, it analyzes states and changes in real facilities and infrastructures. In doing so, deviations are detected that may indicate security-relevant incidents or disruptions, regardless of whether their origin lies in the digital or physical world.

Many companies have significantly improved their IT security in recent years. Nevertheless, it is becoming increasingly apparent that security incidents cannot be viewed in isolation. Digital attacks can have physical consequences, while physical manipulations can, in turn, influence digital systems. The classic separation between IT security and physical security falls short in such scenarios.

The partnership addresses precisely this challenge. CSOC is purposefully expanding its service portfolio to include monitoring of physical security conditions. The data and insights provided by PHYSEC will henceforth be directly integrated into the CSOC control center. This creates a central view of security-relevant events across all levels, from IT to OT to physical infrastructure.

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Through this integration, security incidents can be assessed significantly more precisely. For example, unusual network behavior can be correlated with a simultaneous anomaly at a facility. Conversely, physical irregularities can be analyzed in the context of digital activities. This reduces false alarms, improves detection quality, and enables faster, well-founded responses.

Another advantage lies in the operational implementation: Existing SOC processes such as incident management, escalation, and response are extended to cover cyber-physical scenarios. Companies thus benefit from a unified operational model without having to operate separate silos for IT and physical security.

The cooperation also relies on a clear technological distinction: While classic security solutions focus primarily on network and system data, PHYSEC complements this perspective with physical state data from facilities and infrastructures. The combination of both worlds enables a significantly more comprehensive security situation assessment.

With this collaboration, a development that is gaining particular importance in regulated industries and critical infrastructures is being addressed. Requirements from regulations, increasing threat landscapes, and the growing digitization of industrial processes make integrated security approaches necessary.

The joint solution targets companies that want to align their security strategy with future-proof standards. By combining SOC expertise with physical anomaly detection, a new standard is emerging for the monitoring and securing of complex, interconnected environments.

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About PHYSEC

PHYSEC GmbH specializes in monitoring physical security in OT networks and industrial environments. With its own technology for physical anomaly detection, the company enables the early identification of security-relevant deviations in facilities and infrastructures.

About CSOC

Certified Security Operations Center GmbH operates a 24/7 Security Operations Center and performs the detection, analysis, and handling of security incidents. Through the use of modern technologies and established processes, it offers comprehensive services in the areas of Protection, Detection, and Response with a focus on digital sovereignty "Made in Germany."