CASE STUDY

FERROGLOBE PARTNERS WITH INFOSYS TO SECURE THEIR OT ENVIRONMENT

Abstract

The metallurgical industry has become increasingly advanced with the implementation of computer-controlled OT systems (Operational Technology). However, this has also brought about new risks in the form of potential cyber threats and attacks. These risks include data breaches, system and equipment shutdowns due to hacking, phishing attempts, infiltration through third-party access, and cyber espionage. If such attacks were to occur, they could result in financial losses, damage to reputation, and misuse of sensitive information.

Adopting prudent security measures and implementing an integrated OT security management framework is essential for any metallurgical organization to prevent service disruption and protect these assets from theft or damage due to cyber attacks.

With the objective to understand the cybersecurity maturity of Industrial Control Systems (ICS) in the plants, Ferroglobe, a leading producer and supplier of specialty products and alloys, partnered with Infosys.

Infosys helped them in assessing their critical infrastructure covering Industrial Control and Supervisory Systems and provided them an OT security roadmap for the future.

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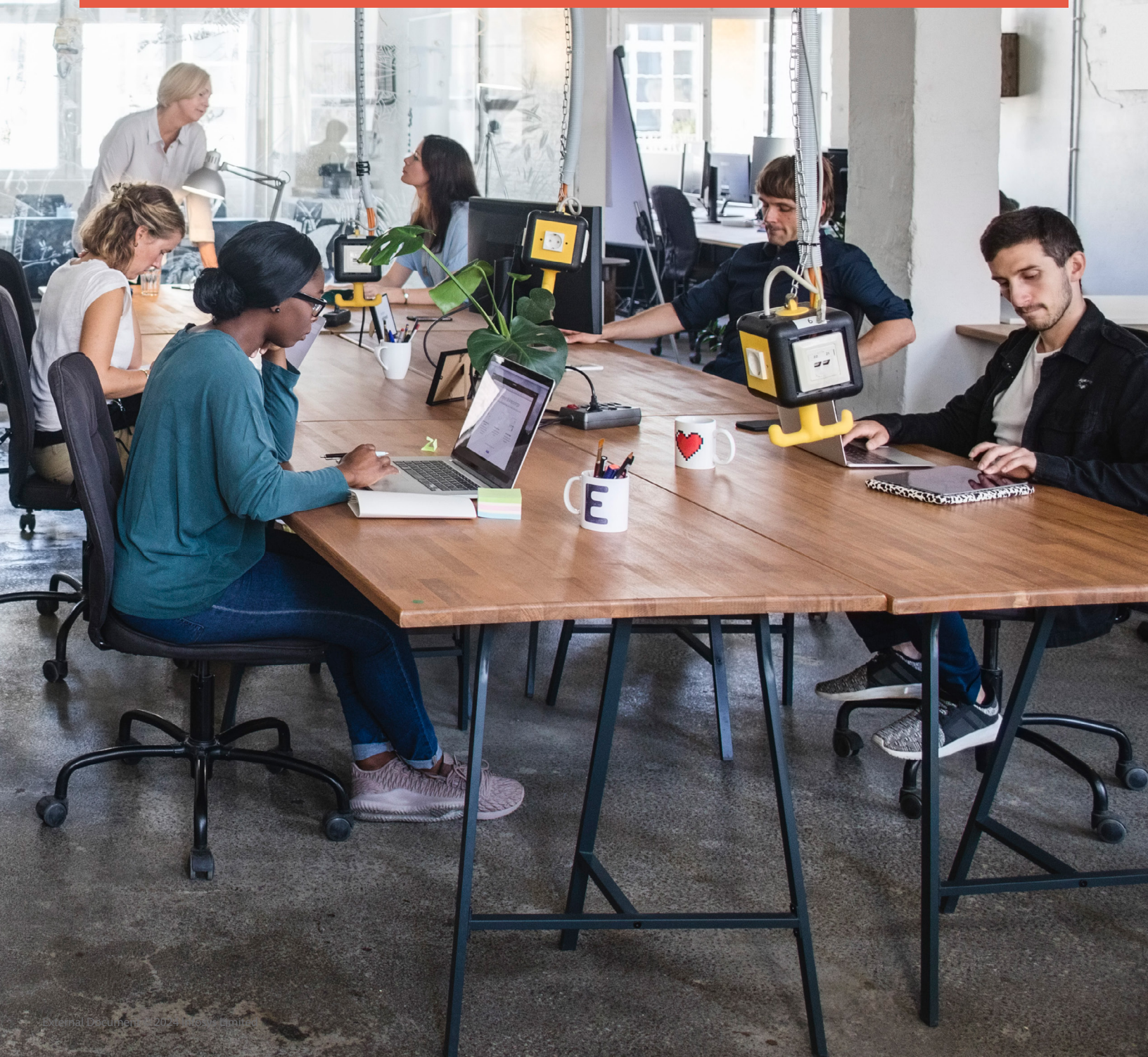
The Infosys Impact

Ferroglobe is a worldwide leading producer of Silicon Metal and Ferroalloys, wanted to uplift their OT environment to enhance visibility of assets, strengthen vulnerability remediation and system hardening. They wanted to assess their areas of concern and build strategies to address the risks.

They partnered with Infosys to conducted a thorough security gap assessment of their OT environment, and examine their existing critical ICS infrastructure for potential vulnerabilities and risks. Following a detailed analysis, Infosys provided valuable insights into these OT assets, its vulnerabilities, and associated risks, along with an effective plan to address them. This equipped Ferroglobe to protect its OT systems against potential threats by taking proactive measures to safeguard valuable assets in order to ensure uninterrupted operations.



OT Security Assessment

Infosys conducted a security assessment exercise on all the plants of Ferroglobe to evaluate and analyze if the existing cybersecurity controls are implemented as per standard and to identify weaknesses in OT systems and networks. Infosys used the OT security diagnostic framework and industry best practices for this purpose. The assessment helped them identify vulnerabilities and determine the level of risk associated with each asset and network component. Infosys devised a remediation strategy, prioritizing actions for critical infrastructure based on asset criticality, vulnerabilities, and likelihood of exploit based on exposure.

To further enhance their security measures, Infosys proposed implementation of an automated system to provide deep insight into the OT environment. This system would assist in identifying and classifying assets, mapping vulnerabilities, and assigning a risk score to each asset. Also, Infosys recommended creation of a monitoring mechanism to detect any anomalous activities in the plant environment.

Overall, Infosys' assessment exercise enabled Ferroglobe to gain valuable insights into the security of their OT environment.
By implementing the suggested measures, Ferroglobe would strengthen their defense against cyber threats and build a more resilient infrastructure.

About Ferroglobe

Ferroglobe is a leading global producer of silicon metal, silicon-based and manganese-based ferroalloys serving a customer base across the globe in dynamic and fast-growing end markets, such as solar, automotive, consumer products, construction and energy.

About Infosys Cyber Security Practice

Infosys combines technological expertise with more than a decade of experience in digital security to provide a complete suite of services including security consulting, transformation, and managed services. We help enterprises navigate towards a secure future by fulfilling the promise of "Digital-trust. Assured" to our clients. Guided by our three principles of Secure by Design, Secure by Scale and Secure the Future, we are committed towards building a holistic Cybersecurity program with our portfolio of service offerings, that follows a four-dimensional approach of Diagnose-Design-Deliver-Defend.

"Infosys conducted an OT security assessment for all our plants, which provided us with great value. The report from the delivery team was thorough and tangible and gave us a great overview of our external attack surface. The Infosys team also provided us with clear and actionable recommendations for the short term and long term for reducing our risk surface and building a strong cyber security incident response mechanism.

It has been a pleasure working with Infosys as they brought in their expertise and helped us in improving our OT cyber security posture and strengthening our defense against cyberthreats."

BEATRIZ GARCÍA-COS MUNTAÑOLA
Chief Finance Officer & IT, Ferroglobe

For more information, contact askus@infosys.com

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