Application: 5467

edge.SHIELDOR

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee’s employer.

Name of Organization/Company

TRIOVEGA GmbH

[redacted]

Additional Contacts

I do not wish to list additional contacts

Page: Entry Information

Entry Title

edge.SHIELDOR

Category

Q05c. New Product of the Year - Information Technology - Cybersecurity

New Product Submission Format

Written Answers

a. Briefly describe the organization that developed the nominated new product: its history and past performance (up to 200 words). Required

TRIOVEGA is a member of the Viega group. We create added value for our customers in services, projects, and products. We are an international partner in technical consulting, implementation, and quality assurance for digitization projects. In close cooperation with experienced and specialized partners, we have been supplying turnkey products and services since 1999 – from planning and implementation to modernization and after-sales service, including consulting services. We develop software solutions and services for renowned industrial companies at our sites in Lübeck and Braunschweig. Our international team develops individual concepts and services for challenges relating to digitalization, optimization, and automation projects.

b. Specify the date on which this nominated product was introduced to the marketplace. Outline the nominated product's features, functions, benefits and novelty (up to 250 words). Required

edge.SHIELDOR was launched on 01.04.2023. Since then, the product positively impacts our customers by reducing costs, enhancing efficiency and improving overall OT security: Its interoperability enables the incorporation of existing production software components without compromising security, thereby streamlining OT security management and reducing Capital Expenditures (CapEx). Additionally, simplifying the patch management process by reducing the number of security updates required and allowing users to schedule these updates during planned production line maintenance, reducing Operational Expenditures (OpEx).

By supporting various protocols, edge.SHIELDOR seamlessly integrates older and newer machines into existing networks. Consequently, the solution contributes to extending the service life of machines. The established secure data connectivity also enables data science activities that can significantly increase production efficiency and Overall Equipment Efficiency (OEE).

Based on a customer study on our product, implementing edge.SHIELDOR helps companies to mitigate key cybersecurity risks:
Common vulnerabilities in operating systems and equipments are a prevalent risk at manufacturing companies. Through edge.SHIELDOR's patented security concept, production systems are safeguarded, and many of these risks are eliminated by completely separating the OT network from the IT network. Furthermore, insecure protocols pose a significant risk, which edge.SHIELDOR addresses by converting outdated and insecure protocols (e.g. OPC-DA, SMBv1) into secure ones (e.g. OPC-UA or SMBv3). Another prevalent risk is password management and password strength. edge.SHIELDOR proactively mitigates this issue by integrating with the company’s authentication and user management systems, while additionally having its own authentication methods.

c. Explain why the nominated product is unique or significant. If possible compare the product to competitors' offerings and/or to the organization's other or past products (up to 250 words). Required

Typically, implementing OT security approaches can lead to a loss of connectivity and data access, especially when integrating legacy machines. These older machines often use outdated, insecure protocols that pose significant security risks. Think of it like sending a letter to an address, but the door code to that address is also being transmitted visibly on top of the envelope - a gateway for attackers. edge.SHIELDOR addresses these challenges by converting insecure protocols into secure ones, allowing legacy machines to be integrated securely into modern IT networks.

The patented security architecture of edge.SHIELDOR implements a complete separation between IT and OT networks, while still enabling selective and controlled data transfer between these two environments. This enables secure access to process data, a unique selling point compared to other security solutions. Furthermore, machines which were previously disconnected from the network due to security concerns are now back in operation, with their software-based service life effectively extended. Establishing secure data connectivity is a crucial step in the digital transformation of production environments.

edge.SHIELDOR operates entirely in the background, ensuring that production runs uninterrupted. In fact, machines can be operated securely even when critical updates are pending. Updates can then be scheduled during planned maintenance windows, minimizing unexpected downtime.

Based on thorough market research, edge.SHIELDOR is the only solution applicable without peripherals (i.e. deployed on virtual machines). This advantage enhances OT security without requiring additional physical IT assets (e.g. IPC) that also need maintenance or updates and thereby reduces the complexity significantly.

d. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words). Optional

[REDACTED FOR PUBLICATION]

Would you like to add an additional webpage link?

Supporting Document

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

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[redacted]

Would you like to add an additional supporting document?

No

By your submission of this entry to The Stevie Awards, you verify that you have read and agreed to abide by the regulations, terms and conditions of the competition (https://www.asia.stevieawards.com/rules-and-terms-conditions-competition)

Terms and Conditions

I Agree